# RESULT

OF

# ASTRONOMICAL OBSERVATIONS

MADE AT

THE HONORABLE,

THE EAST INDIA COMPANY'S OBSERVATORY

AT MADRAS,

BY

THOMAS GLANVILLE T.

ASTRONOMER TO THE HONORABLE COMPANY.

## VOL. IV.

FOR THE YEARS 1836 AND 1837.

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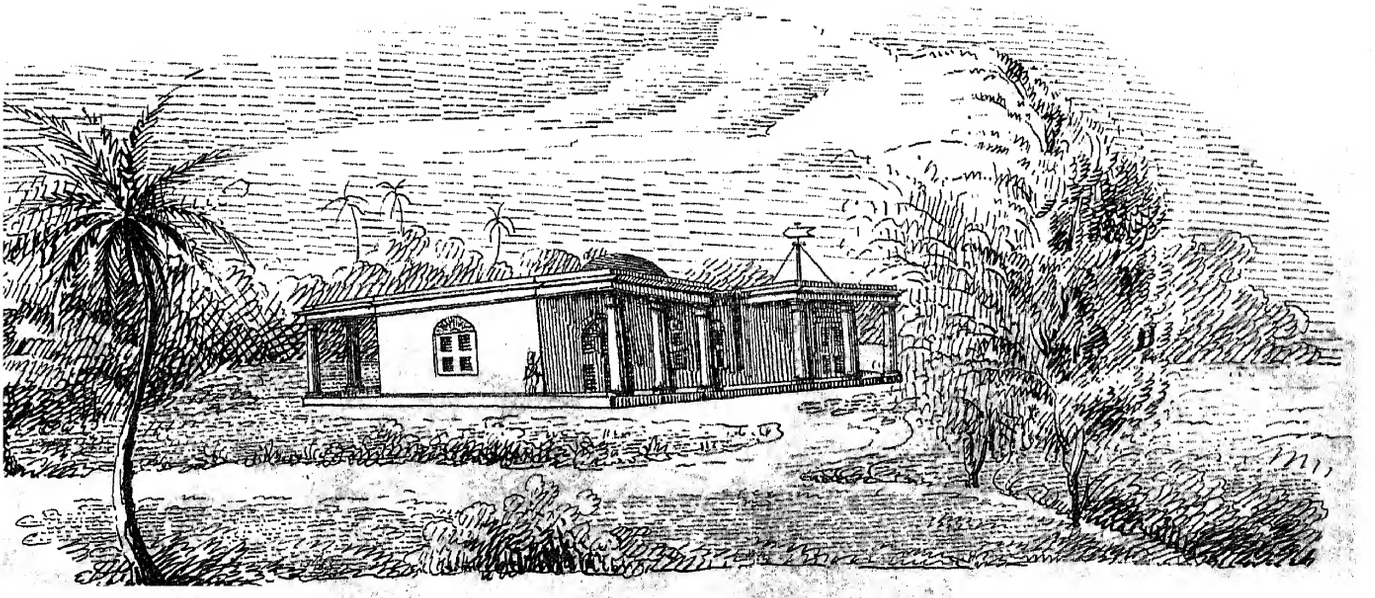

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# PREFACE.

The contents of the present volume differs so little from that found in the former volumes of the Madras Observations, as almost to render a preface unnecessary: to conform however to established customs, it is proper for me to remark, that the Observations on the meridian of which the results are here given, have been continued without interruption—principally by the native Assistants, and that those *out* of the meridian have been made exclusively by myself: In allowing the meridianal Observations to be made by the native assistants, I have been careful frequently to re-examine their bisections with the Mural Circle, and to compare the clock errors from their observations with the Transit Instrument with those determined from my own, when, in no case have I found that their bisections were less accurate than I could have made myself, and the difference between our estimations of time (*"personal equation"*) has seldom amounted to two tenths of a second. The observations of the Sun (which have always proved unsatisfactory—still continue to exhibit the same want of consistency, and my endeavour to discover the cause have—I regret to state not in the least degree proved successful: the observations of the Planet *Mars* and of Stars situated near to his path for the purposes of Parallax, have now been continued for three successive oppositions, and the necessary comparisons between these and corresponding observations which have been made at the Cape of Good Hope Observatory, have been instituted —without I fear having in the least advanced the object of enquiry: this result, as well as other observations of measuring angular distances with the Mural Circle, tends to shew—that although a single observation may be *depended upon* to 1″, 5 or 2″, still, the tenth or twentieth part of this amount—which is the present object of enquiry,—can only be attained by an almost unlimited number of observations. The observation of Moon Culminating Stars and occultations has been continued, as has likewise the Eclipses of Jupiter's Satellites, but not having received the corresponding observations at Greenwich complete, I have delayed for the present to attempt any improvement of the supposed value of the Longitude, and since it would have interfered with the observation of the Star Catalogue to attempt reflection Observations; I have likewise allowed the question of Latitude to remain undisturbed. The reductions have for the most part been performed by myself, and when performed by an Assistant, have invariably undergone—either a recomputation, or a careful revision by myself before they were trusted. On comparing the places of the 2066 Stars which are here given, with Piazzi's

Catalogue; a result similar to that noticed in Vol. III. (as occurring between the Catalogue *there* given when compared with Piazzi) was here too apparent; in consequence of which, I have gone back to the catalogue given in Vol. II. and have likewise compared it with the places assigned by Piazzi; after combining the results from these three catalogues (containing about 7600 Stars) there still appears a tendency to exhibit a *General Proper Motion* of the fixed Stars, which can be explained, by supposing a motion of the Solar System towards the North Pole of the Ecliptic: whether the data from which this conclusion has been drawn shall appear sufficient or no, I would beg for the present to claim a little indulgence—until a comparison of the table of refractions employed by Piazzi (not now at my command) with those at present in use, shall have been instituted—and a reexamination of Latitudes undertaken;—this done,—I shall be prepared either to announce this important and somewhat unexpected result, with more precision and certainty, or to acknowledge with humility that I have been in error—

T. G. TAYLOR,
H. C. ASTRONOMER.

I take this opportunity to acknowledge with very many thanks, the receipt of copies of the *Connaissance des Temps* and *Nautical Almanac*, as well as other very valuable works from learned Societies and individuals.

# OF THE TRANSIT INSTRUMENT.

THE focal length of the Transit Instrument is 61 Inches, with a clear aperture of $3\frac{3}{4}$ Inches; but for bright Stars and the Sun an aperture of 2 Inches only has generally been employed. As originally constructed by Dollond the pivots were of bell metal, but during the first three years of its use these had worn so unequally as to render it necessary to re-turn them, when collars of steel were applied over the bell metal, so as to restore them to their original dimensions; this was accomplished in the years 1834—35 by Mr. Barrow, the Honorable Company's Instrument maker at Calcutta, in a manner which rendered the Instrument as perfect as when it was first erected. Consulting Vol. III. it appears that in January and February 1834
the illuminating pivot was *apparently* less than the other pivot 1″,69
and in December 1835 that it was less.....1,10

Since this time—from several inversions of the axis—on the 5th October 1836
the illuminating pivot was *apparently* less than the other pivot..2″,06
and on the 21st November 1837.....1,81
Mean=1,66

The eye-piece is furnished with five vertical and one horizontal fixed wires, and one vertical moveable wire; the Equatorial intervals between the former were determined from the intervals occupied by several stars situated near the Pole to pass from wire to wire as follows;—

| | Seconds. |
|---|---|
| from 1st wire to centre..... | +54,577 |
| 2d..... | +26,961 |
| 4th..... | —27,470 |
| 5th..... | —55,289 |

rendering necessary the correction..... $\frac{-0,244}{\text{cos. Decln.}}$ to reduce the mean

of the five wires to the centre wire.

These numbers hold good up to the 30th October 1836, when the wires were broken in consequence of the shutters on the roof of the Observatory being blown open by the violence of the wind, whereby the instrument was exposed for some minutes to very heavy rain;*—having failed during this time to secure the shutter—the fastenings having given way and one only out of three hinges remaining entire, I was compelled to take the transit off its axis, and deposit it in the safest place I could find; the wind which was blowing from the North, had burst open the Northern door as well as the Southern one immediately opposite; hence there appeared to be no other choice than that of placing it upon the table which stood against the most secure part of the Northern wall of the Observatory;—here, supported by books and a green baize cover, I felt assured that nothing short of the building falling in, would have in the least degree endangered it; at one instant I thought of depositing it upon the floor, where it would be sheltered by the table, but streams of water which were flowing through the Observatory determined it otherwise; —at 5 o'clock in the afternoon having completed all that could be of service to secure the Instruments—I left the Observatory to the care of an assistant. At $\frac{1}{4}$ before 7 it blew a perfect hurricane,—the Dome on the top of the Observatory was blown away, and the stoutest trees and hedges were laid low!—at 7 o'clock the wind had much moderated, and at $\frac{1}{4}$ past 7—a lull—a dead calm ensued. I watched the appearance of the sky and fluctuations of the Barometer at this moment with feelings of intense anxiety and interest;—the clouds were passing one another in utter confusion, and although calm below, it was evident that at no great height above the Earth there was a severe conflict among the elements;—I had hardly time to make a note of these appearances and of the height of the Barometer, when the rain—which had ceased during the lull, again set in, accompanied by the sighs and moans of the again returning hurricane:—at a $\frac{1}{4}$ before 8, the wind—*which now blew from the* SOUTH, had risen to a pitch more fearful than that before experienced; in short—no description can convey an adequate idea of its intense fury;—doors and windows, iron bars and bolts—were with one rude rush scattered and broken! At this moment the southern doors of the Observatory, situated opposite to the northern wall where the Transit Instrument had been deposited—was literally blown to pieces; whereby one of the pieces (about 8 feet by 6 Inches by 2 Inches) which had been blown across the room, had fallen edgewise upon the head of the micrometer attached to the Transit Instrument and very neatly cut it off, without at all disturbing the other parts of the telescope. Other

* There fell 7,5 Inches, in the course of 12 hours—for the indications of the Barometer see the end.

injuries had been sustained by the books having been disturbed, whereby the object end of the telescope had fallen upon a pile of books from a height of about 2 feet, whence two slight indentations had been sustained —one on each side of the tube, at 10 or 12 Inches above the object end of the telescope; and the tangent screw of the setting circle had been hit: but it was evident that the axis had not in the slightest degree been injured; a circumstance of which I have since well assured myself from observation.—The first fact that struck my notice on examining the Instrument—was, that the focal length of the object glass had apparently altered; or rather that the telescope had become shorter; for, in order to render the principal focus coincident with the wires, it was necessary to remove the object glass ,07 of an inch from the position it had hitherto occupied in the cell into which it was secured;—this remedied (which I was enabled to do by interposing three pieces of brass of this thickness between the bottom of the cell and the frame carrying the object glass) it only remained that the micrometer screw should be replaced—this was readily and very neatly accomplished by Mr. Barrow of Calcutta, and six weeks after the date of this calamity all was again in order:—in this interval the observations were continued without the micrometer (as will be seen in the sequel,) without I apprehend in any material degree endangering their general accuracy.

Up to the date of these misfortunes the illuminating pivot had always reposed upon the eastern Y or Pillar; but the damage sustained by the tangent screw above noticed, rendering its motion stiff and uncertain, I was induced to shift the position of the axis—so as to bring the other setting circle into use; accordingly from the 5th November to the present time the position of the Instrument has been "*illuminating Pivot West.*"

On the 5th November I put in a new set of Wires, when—from the mean of several Stars situated near to the Pole, the Equatoreal intervals were found to be—

| | Seconds. |
|---|---|
| from 1st wire to centre..... | +54,840 |
| 2d..... | +27,251 |
| 4th ..... | —27,828 |
| 5th..... | —54,530 |

hence to reduce the mean of the five wires to the centre wire, for the fixed Stars we must apply the correction..... $-\frac{s}{\text{sin. N. P. D.}}$ 0,053

In volumes I. and II. the value of the micrometer screw had been determined to be 34″,366 for each revolution, whereas for that now in use (which I requested Mr. Barrow to make of nearly the same degree of fineness)—one revolution corresponds to 32″,94.

It now only remains for me to state another, though trifling circumstance with regard to the Transit Instrument—namely, that after above six years of constant use, the lacquer had completely disappeared from the eye end of the telescope, and existed in patches only on the other parts;—with a view to arrest the progress of oxidation, as well as to improve its now dingy appearance,—on the 22-25th February 1837, I applied two coats of oil paint over the entire surface, whereby its appearance as well as efficiency is again restored.

## ERROR OF LEVEL OF THE TRANSIT AXIS.

THE error of level of the Transit Axis has been determined as heretofore by the Spirit level, and the necessary correction for error of level applied to each observations; this is true at least for the observations made before the 30th October 1836, and for those made after the 18th January 1837:—for the observations made between these dates—having from time to time adjusted the axis to horizontality, no correction on this account is necessary. The Column (L + P) is obtained from the mean of three readings of the level with the Cross level East, and the same number with Cross level West, viz. one at each extremity, and one in the middle of the pivots; the value of P or half of the apparent defect of the illuminating pivot which is given at page 1—being applied, leaves the values of L which have been employed in the reduction of the Observations. It must be noticed however that the correction P applies with a contrary effect after the 5th November 1836 to what it did before that date, in consequence of the illuminating or smaller pivot having been transferred from the Eastern to the Western Pier, as has already been stated at page 3.

| 1836. | Illmtg. Pivot. | L+P | Remarks, &c. |
|---|---|---|---|
| | | ″ | |
| Jany. 2 | East | 3,56 E | |
| 4 | .. | 3,49 „ | |
| 6 | .. | 2,92 „ | |
| 8 | .. | 2,72 „ | |
| 11 | .. | 3,03 „ | |
| 13 | .. | 3,54 „ | |
| 16 | .. | 3,48 „ | |
| 18 | .. | 3,10 „ | |
| 20 | .. | 3,11 „ | |
| 22 | .. | 3,13 „ | |
| 25 | .. | 3,03 „ | |
| 27 | .. | 3,28 „ | |
| 29 | .. | 3,17 „ | Mean= { 3″,20E ,70 } ∴ L=3″,90E |
| Feb. 1 | .. | 2,60 „ | |
| 3 | .. | 2,66 „ | |
| 5 | .. | 2,84 „ | |
| 8 | .. | 3,06 „ | |
| 10 | .. | 2,92 „ | |
| 12 | .. | 2,50 „ | |
| 14 | .. | 2,39 „ | |
| 16 | .. | 2,21 „ | Mean= { 2″,65E ,70 } ∴ L=3″,35E |
| 18 | .. | 1,99 „ | |
| 20 | .. | 1,60 „ | |
| 21 | .. | 1,60 „ | |
| 22 | .. | 1,96 „ | |
| 24 | .. | 2,15 „ | |
| 26 | .. | 2,66 „ | |
| 28 | .. | 2,29 „ | |
| March 1 | .. | 2,19 „ | |
| 3 | .. | 2,61 „ | |
| 5 | .. | 2,60 „ | |
| 7 | .. | 2,15 „ | |
| 9 | .. | 1,72 „ | |
| 12 | .. | 1,63 „ | |
| 14 | .. | 1,32 „ | |
| 16 | .. | 1,38 „ | |
| 18 | .. | 1,74 „ | |
| 21 | .. | 1,22 „ | Mean= { 1″,93E ,70 } ∴ L=2″,63E |
| 23 | .. | 0,88 „ | |
| 25 | .. | 0,88 „ | |
| 28 | .. | 0,72 „ | |
| 30 | .. | 1,00 „ | |
| April 2 | .. | 1,10 „ | |
| 4 | .. | 0,87 „ | |
| 7 | .. | 0,05W | |
| 9 | .. | 2,01E* | |
| 10 | .. | 0,17W | |
| 11 | .. | 0,39 E | |
| 13 | .. | 0,31 „ | |
| April 14 | East | 1,23 E | |
| 16 | .. | 0,40 „ | |
| 18 | .. | 0,12 „ | |
| 19 | .. | 0,31 „ | |
| 21 | .. | 1,11 „ | |
| 23 | .. | 0,42 „ | |
| 25 | .. | 0,07W | |
| 27 | .. | 0,15 „ | |
| 29 | .. | 0,41 E | |
| May 1 | .. | 0,60 „ | |
| 3 | .. | 0,38 „ | |
| 5 | .. | 0,15 „ | |
| 7 | .. | 0,25 „ | |
| 9 | .. | 0,50W | Mean= { 0″,44E ,70 } ∴ L=1″,14E |
| 11 | .. | 1,02 „ | Land winds set in. |
| 13 | .. | 1,70 „ | |
| 16 | .. | 0,55 „ | |
| 18 | .. | 2,02 „ | |
| 20 | .. | 1,25 „ | |
| 23 | .. | 1,47 „ | |
| 25 | .. | 1,32 „ | |
| 27 | .. | 1,53 „ | |
| 29 | .. | 1,67 „ | |
| 31 | .. | 1,12 „ | |
| June 2 | .. | 1,47 „ | |
| 4 | .. | 1,26 „ | |
| 6 | .. | 1,21 „ | |
| 8 | .. | 1,07 „ | |
| 10 | .. | 1,37 „ | |
| 12 | .. | 1,29 „ | |
| 14 | .. | 0,82 „ | |
| 16 | .. | 0,52 „ | |
| 18 | .. | 0,17 „ | |
| 20 | .. | 0,43 „ | |
| 22 | .. | 0,93 „ | |
| 29 | .. | 0,85 „ | |
| July 1 | .. | 1,05 „ | Mean= { 1″,13W ,70 } ∴ L=0″,43W |
| 4 | .. | 0,15 E | Heavy rain on the 2nd. |
| 8 | .. | 0,46W | |
| 10 | .. | 0,11 „ | |
| 13 | .. | 0,62 „ | |
| 15 | .. | 0,66 „ | |
| 18 | .. | 0,73 „ | |
| 20 | .. | 0,19 „ | |
| 23 | .. | 0,43 „ | |
| 27 | .. | 0,10 „ | |
| 29 | .. | 0,26 E | |
| August 1 | .. | 0,14W | |
| 11 | .. | 0,54 E | |

* This is omitted in taking the Mean.

| 1836. | Illmtg. Pivot. | L+P | Remarks, &c. |
|---|---|---|---|
| | | " | |
| August 15 | East | 0,64 E | |
| 18 | .. | 1,06 „ | Mean= { 0,05W ,70 } ∴ L=0,65E |
| 22 | .. | 1,53 „ | |
| 24 | .. | 1,20 „ | |
| 27 | .. | 1,57 „ | |
| Sept. 7 | .. | 2,21 „ | |
| 9 | .. | 1,83 „ | |
| 11 | .. | 1,78 „ | |
| 15 | .. | 1,87 „ | |
| 17 | .. | 2,01 „ | |
| 19 | .. | 2,15 „ | |
| 22 | .. | 1,93 „ | |
| 23 | .. | 1,65 „ | |
| 26 | .. | 2,52 „ | |
| 29 | .. | 2,59 „ | |
| Oct. 3 | .. | 2,12 „ | |
| 6 | .. | 2,23 „ | |
| 8 | .. | 2,92 „ | |
| 10 | .. | 2,23 „ | |
| 12 | .. | 1,69 „ | |
| 14 | .. | 1,44 „ | |
| 16 | .. | 1,17 „ | |
| 19 | .. | 1,81 „ | |
| 21 | .. | 1,97 „ | |
| 24 | .. | 2,03 „ | |
| 26 | .. | 1,92 „ | Mean= { 1,93E ,70 } ∴ L=2,63E |
| 29 | .. | 3,73 „ | |

| 1836. | | L—P | |
|---|---|---|---|
| Nov. 5 | West | 0,00 | Adjusted for Level. |
| 9 | .. | 2,50 E | Do. Do. |
| 12 | .. | 2,00 „ | Do. Do. |
| 18 | .. | | Very heavy rain and high wind— |
| 19 | .. | | there fell 17 inches in 36 hours. |
| 22 | .. | 7,50 E | Adjusted for Level. |
| Decr. 1 | .. | 1,37W | Do. Do. |
| 6 | .. | 1,90W | Do. Do. |
| 9 | .. | 0,00 „ | |
| 13 | .. | 1,70W | Do. Do. |
| 21 | .. | 0,10 E | |
| 24 | .. | 0,22 „ | |
| 1837. | | | |
| Jany. 2 | .. | 0,80W | |
| 9 | .. | 2,00 „ | Adjusted for Level. |
| 18 | .. | 2,67 E | |
| 25 | .. | 2,55 „ | |
| 31 | .. | 2,15 „ | |

| 1837. | Illmtg. Pivot. | L—P | Remarks, &c. |
|---|---|---|---|
| | | " | |
| Feb. 4 | West | 2,50 E | Mean= { 2,47E ,70 } ∴ L=1,77E |
| 7 | .. | 2,47 „ | |
| 10 | .. | 4,20 „ | |
| 14 | .. | 4,37 „ | |
| 16 | .. | 4,02 „ | |
| 21 | .. | 3,20 „ | |
| 27 | .. | 4,11 „ | |
| March 4 | .. | 4,76 „ | |
| 9 | .. | 3,91 „ | |
| 13 | .. | 3,21 „ | |
| 17 | .. | 3,35 „ | |
| 21 | .. | 2,70 „ | |
| 24 | .. | 2,79 „ | |
| 28 | .. | 3,16 „ | Mean= { 3,65E ,70 } ∴ L=2,95E |
| 31 | .. | 1,91 „ | |
| April 3 | .. | 1,70 „ | |
| 6 | .. | 1,62 „ | |
| 9 | .. | 1,17 „ | |
| 12 | .. | 1,95 „ | |
| 15 | .. | 1,90 „ | |
| 18 | .. | 1,36 „ | |
| 21 | .. | 2,41 „ | |
| 24 | .. | 1,04 „ | |
| 27 | .. | 0,88 „ | |
| 30 | .. | 1,38 „ | Mean= { 1,57E ,70 } ∴ L=0,87E |
| May 3 | .. | 0,78 „ | |
| 6 | .. | 0,75 „ | |
| 9 | .. | 0,66 „ | |
| 12 | .. | 0,27 „ | |
| 15 | .. | 0,25W | |
| 18 | .. | 0,07 E | |
| 21 | .. | 0,74 „ | |
| 24 | .. | 1,00 „ | |
| 27 | .. | 0,16 „ | Mean= { 0,56E ,70 } ∴ L=0,14W |
| 30 | .. | 1,84 „ | Hot Land Winds. |
| June 2 | .. | 2,69 „ | |
| 5 | .. | 0,93 „ | |
| 8 | .. | 0,78 „ | |
| 11 | .. | 0,55 „ | |
| 14 | .. | 0,07 „ | |
| 17 | .. | 1,12 „ | |
| 20 | .. | 0,58 „ | |
| 23 | .. | 1,28 „ | |
| 26 | .. | 1,23 „ | |
| 29 | .. | 0,97 „ | |
| July 2 | .. | 0,72 „ | |

| 1837 | | Illmtg. Pivot. | L—P. | Remarks, &c. |
|---|---|---|---|---|
| | | | " | |
| July | 5 | West | 1,10 E | |
| | 8 | .. | 0,74 „ | |
| | 11 | .. | 0,95 „ | |
| | 14 | .. | 1,21 „ | |
| | 17 | .. | 0,88 „ | Mean= $\left\{\begin{matrix}0,88\text{E}\\,70\end{matrix}\right\}$ ∴ L=0,18E |
| | 20 | .. | 1,47 „ | |
| | 23 | .. | 1,48 „ | |
| | 26 | .. | 1,42 „ | |
| | 29 | .. | 1,03 „ | |
| August | 1 | .. | 0,84 „ | |
| | 4 | .. | 1,82 „ | |
| | 7 | .. | 2,41 „ | |
| | 10 | .. | 1,64 „ | |
| | 13 | .. | 1,73 „ | |
| | 16 | .. | 1,83 „ | |
| | 19 | .. | 1,90 „ | |
| | 21 | .. | 1,38 „ | |
| | 25 | .. | 1,50 „ | |
| | 28 | .. | 1,86 „ | |
| | 31 | .. | 1,82 „ | |
| Sept. | 3 | .. | 1,05 „ | |
| | 6 | .. | 1,75 „ | |
| | 9 | .. | 1,45 „ | |
| | 13 | .. | 1,40 „ | |
| | 15 | .. | 1,39 „ | |
| | 18 | .. | 1,26 „ | |
| | 21 | .. | 0,91 „ | |
| | 24 | .. | 0,84 „ | |
| | 27 | .. | 1,60 „ | |
| | 30 | .. | 0,50 „ | Mean= $\left\{\begin{matrix}1,45\text{E}\\,70\end{matrix}\right\}$ ∴ L=0,75E |
| Oct. | 3 | .. | 2,17 „ | |

| 1837 | | Illmtg. Pivot. | L—P. | Remarks, &c. |
|---|---|---|---|---|
| | | | " | |
| Oct. | 6 | West | 2,26 E | |
| | 9 | .. | 2,13 „ | |
| | 12 | .. | 1,90 „ | |
| | 15 | .. | 1,87 „ | |
| | 18 | .. | 2,27 „ | |
| | 21 | .. | 2,60 „ | |
| | 24 | .. | 2,50 „ | |
| | 27 | .. | 2,38 „ | |
| | 30 | .. | 2,60 „ | Mean= $\left\{\begin{matrix}2,27\text{E}\\,70\end{matrix}\right\}$ ∴ L=1,57E |
| Nov. | 2 | .. | 6,78 „ | There fell 8,6 Inches of rain. |
| | 5 | .. | 6,82 „ | |
| | 8 | .. | 6,74 „ | |
| | 11 | .. | 5,90 „ | |
| | 14 | .. | 5,56 „ | |
| | 17 | .. | 5,10 „ | |
| | 20 | .. | 4,78 „ | |
| | 23 | .. | 5,18 „ | |
| | 26 | .. | 5,29 „ | |
| | 29 | .. | 5,00 „ | |
| Decr. | 2 | .. | 5,09 „ | |
| | 5 | .. | 4,99 „ | |
| | 8 | .. | 5,33 „ | |
| | 11 | .. | 5,70 „ | Mean= $\left\{\begin{matrix}5,27\text{E}\\,70\end{matrix}\right\}$ ∴ L=4,57E |
| | 14 | .. | 3,58 „ | Fine weather. |
| | 17 | .. | 2,85 „ | |
| | 20 | .. | 2,25 „ | |
| | 23 | .. | 2,50 „ | |
| | 26 | .. | 2,40 „ | |
| | 29 | .. | 1,99 „ | |
| | 31 | .. | 2,05 „ | |

## ERROR OF COLLIMATION OF THE TRANSIT INSTRUMENT.

Having found from experience that the determination of the error of Collimation by inversion of the axis was sometimes liable to uncertainty, (by reason of the great care which is necessary, but which cannot always be afforded, in placing the pivots on their Y's), I have in the present volume, as heretofore, had recourse to inversion for this purpose but very seldom, and then only have employed it as a check upon other methods. In the early part of 1836 the error of Collimation was determined by measuring with the micrometer

screw, the horizontal angular distance between the North and South Meridian Marks, and comparing this result with the previously known true angular distance; thus,—if C represent the collimation error, $N^1$, $-S^1$ the observed azimuths of the centre wire as affected by C, and N,—S the azimuths as not so affected, we have

$$\text{the reading of the North Mark} = + N^1 = +N \pm C$$
$$\text{South do.} = -S^1 = -S \pm C$$

taking the sum, $N^1 - S^1 = N - S \pm 2C$; in which N—S, the true angular distance between the marks being known, we immediately obtain the value of C:—for the value of N—S ($= \theta$) there were several measures made in the early part of 1835 (see Vol. III p. 8.) in which it came out 180° 0′ 26″,03 and from 5 Inversions on the 13th January 1836 it came out 180° 0′ 25″,77; the former result however is that which has been employed in the computations. For the observations after 20th March and up to 30th October 1836, the azimuth of the centre wire from the North Mark only has been observed, and in place of the other, an observation has been made on every second or third day with the "*Reflecting Collimator*." The observation with the "*Reflecting Collimator*" which has been explained already in Vol. III;—consists in measuring the angular distance with the micrometer, between the direct image of the centre wire, and its image as reflected from a basin of quicksilver: to accomplish this, I drilled a small hole in the side of the telescope, at about 6 inches from the eye end, so that the light from a lamp after passing through it, might fall uninterruptedly upon the wires;—I now introduced a silver speculum into one of the eye pieces in front of the lens, so that by varying its inclination, the light from the lamp could be thrown perpendicularly upon the wires, whereby their image as reflected from a basin of quicksilver placed underneath the Transit, was nearly as well defined as the direct image; the speculum was suspended upon an axis passing through the sides of the eye piece, by which it could be adjusted to the proper angle, and was furnished with a small elliptical hole (about ,07 of an In. diameter) through which the wires were seen. In the employment of this method, it is indispensably necessary that the centre wire should describe a vertical circle, and that the moveable wire be parallel to it; this latter precaution however would not be necessary—could the bisection be made at the exact point of its intersection with the horizontal wire; but this not being accomplishable in practise, in consequence of the want of light at this part of the field, by reason of the shadow of the aperture through which the observation is made;—it becomes necessary when paral-

lelism cannot be obtained, to allow for its effect :—In the case of the Madras Transit ;—since the application of the steel pivots, the adjustment of the moveable wire for parallelism has proved insufficient; hence the readings of the Reflecting Collimator which now follow, are not those immediately read off from the instrument, but the readings as corrected for want of parallelism.

In the table which follows, these corrected readings of the Reflecting Collimator divided by 2, or C + L * are given;—in which C (as noted above) represents the error of collimation, and L the error of Level. The quantity L + P, is taken from the level observations at pages 5—7, save that for the days intermediate between those on which the level was observed, I have employed corresponding intermediate values. For the observations between the 1st November 1836 and 18th January 1837—having been deprived of the means of measuring angular distances, by the loss of the micrometer, I now placed a small Mark upon the pier which had hitherto supported the old North Meridian Mark, and as nearly as possible in the direction of the meridian ; my object was with the level, to render the amount L=0 by adjustment; and then, the reflecting collimator allowing me to adjust for any amount of Collimation C, the azimuth error would remain the only unknown: hence the observations made in the interval just stated do not require correction for error of Collimation. On the 18th January 1837 having applied the new micrometer, and for convenience sake produced a small collimation error—I recommenced the measurement of the errors of Collimation as they had previously been conducted before the Storm.

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* In Vol. III. page 17 line 34 *et seq.*, I have committed an unaccountable mistake and an oversight;—1st in stating the reading of the Reflecting Collimator to be (C+L+P) × 2,—and 2ndly, in omitting a correction due to the want of parallelism of the centre and moveable wires. As the numbers stand in Vol. III. they are however right, or very nearly so, in consequence of the correction for want of parallelism amounting to 7 or 8 tenths of a second—nearly that of P;—thus, the reading of the last column or 2 P, should be P+″,75 ∴ P= —0″,77. And for lines 1—5 page 18 the following should be substituted—

Illuminating Pivot East, the reading was +13″,81=(C+L) ×2

West, — 5,43= $-\overline{C+L-2P}$ ×2

assuming P= —0″,80, we get L=1″,29 E. and C=5,″61; whereas from the level Observations we find L=2″,11 E; and, from the Observation of the N. and S. Marks C=6,″15, and from inversion 6″,39.

| 1836. | Observed Azimuth N. | Observed Azimuth S. | N+S+θ 2 or C | Remarks, &c. | Ref. Col. 2 or C+L | L+P | Diff. or C—P | P |
|---|---|---|---|---|---|---|---|---|
| | ″ | ″ | ″ | | ″ | ″ | ″ | ″ |
| Jan. 1 | +38,35 | —44,24 | +10,07 | | | | | |
| 2 | 38,15 | 44,41 | 9,89 | | | | | |
| 3 | 38,18 | 44,68 | 9,77 | | +14,65 | +3,52 | +11,13 | —1,36 |
| 4 | 38,15 | 44,51 | 9,84 | | 14,45 | 3,49 | 10,96 | 1,12 |
| 5 | 38,18 | 44,75 | 9,73 | | | | | |
| 6 | 38,08 | 44,61 | 9,75 | | | | | |
| 7 | 38,18 | 44,41 | 9,90 | | 14,42 | 2,82 | 11,60 | 1,70 |
| 8 | 38,15 | 44,58 | 9,80 | | | | | |
| 9 | 38,25 | 44,53 | 9,85 | | | | | |
| 10 | 38,12 | 44,58 | 9,78 | Mean=9″,84 | 14,24 | 2,87 | 11,37 | 1,59 |
| 11 | 37,95 | 44,55 | 9,71 | | | | | |
| 12 | 38,18 | 44,45 | 9,88 | | | | | |
| 13 | 38,29 | 44,45 | 9,93 | | 14,61<br>14,82 | 3,54 | 11,17 | 1,24 |
| 14 | 38,15 | 44,20 | 9,99 | | | | | |
| 15 | 38,05 | 44,03 | 10,02 | | 14,49 | 3,51 | 10,98 | 0,96 |
| 16 | 38,18 | 44,06 | 10,07 | | 14,16 | 3,48 | 10,68 | 0,61 |
| 17 | 38,22 | 44,10 | 10,07 | | | | | |
| 18 | 38,12 | 43,82 | 10,16 | | | | | |
| 19 | 38,05 | 43,82 | 10,13 | | 13,65 | 3,11 | 10,54 | 0,41 |
| 20 | 37,95 | 44,17 | 9,90 | Mean=9″,99 | 12,69 | 3,11 | 9,58 | +0,32 |
| 21 | 38,35 | 44,07 | 10,15 | | 13,29 | 3,12 | 10,17 | —0,02 |
| 22 | 38,22 | 44,10 | 10,07 | | | | | |
| 23 | 38,29 | 43,90 | 10,21 | | | | | |
| 24 | 38,39 | 44,31 | 10,06 | | 12,36 | 3,03 | 9,33 | +0,73 |
| 25 | 38,15 | 44,03 | 10,07 | | | | | |
| 26 | 38,25 | 44,07 | 10,10 | | 12,53 | 3,15 | 9,38 | +0,72 |
| 27 | 38,56 | 43,97 | 10,31 | | 14,32 | 3,28 | 11,04 | —0,73 |
| 28 | 38,32 | 44,21 | 10,07 | | 13,13 | 3,22 | 9,91 | +0,16 |
| 29 | 38,39 | 44,41 | 10,00 | | | | | |
| 30 | 38,29 | 44,41 | 9,95 | Mean=10″,10 | 12,70 | 2,88 | 9,82 | +0,13 |
| 31 | 38,22 | 44,51 | 9,87 | | 12,87 | 2,88 | 9,99 | —0,12 |
| Feb. 1 | 38,25 | 44,24 | 10,02 | | 12,78 | 2,60 | 10,18 | —0,16 |
| 2 | 38,15 | 44,27 | 9,96 | | | | | |
| 3 | 38,32 | ——— | ——— | | 13,29 | 2,66 | 10,63 | —0,56 |
| 4 | 38,36 | 44,00 | 10,19 | | 13,47 | 2,75 | 10,72 | —0,53 |
| 5 | 38,12 | 44,17 | 9,99 | | 12,77 | 2,84 | 9,93 | +0,06 |
| 6 | 38,36 | 44,24 | 10,07 | | | | | |
| 7 | 38,43 | 44,07 | 10,19 | | 13,29 | 2,95 | 10,34 | —015 |
| 8 | 38,33 | 44,14 | 10,11 | | 13,47 | 3,06 | 10,41 | —030 |
| 9 | 38,18 | 44,31 | 9,95 | | | | | |
| 10 | 38,33 | 44,17 | 10,09 | Mean=10″,05 | | | | |
| 11 | 38,33 | 44,31 | 10,02 | | | | | |
| 12 | 38,56 | 44,37 | 10,11 | | | | | |
| 13 | 38,63 | 44,71 | 9,97 | | 12,95 | 2,45 | 10,50 | 0,53 |
| 14 | 38,63 | 44,41 | 10,12 | | 12,77 | 2,39 | 10,38 | 0,26 |
| 15 | 38,73 | 44,85 | 9,96 | | | | | 0,34 |
| 16 | 38,65 | 44,85 | 9,91 | | 12,43 | 2,21 | 10,22 | 0,31 |
| 17 | 38,69 | 44,85 | 9,93 | | 12,60 | 2,10 | 20,50 | —0,57 |
| 18 | 38,56 | 44,88 | 9,86 | | | | | |
| 19 | 38,56 | 44,65 | 9,77 | I took out the | | | | |
| 20 | 39,32 | 45,27 | 10,04 | object glass. | 11,40 | 1,60 | 9,80 | +0,24 |
| 21 | 39,76 | 45,19 | 10,30 | Mean=9″,90 | 12,43 | 1,60 | 10,83 | —0,53 |

| 1836. | Observed Azimuth N. | Observed Azimuth S. | N+S+θ / 2 or C | Remarks, &c. | Ref. Col. / 2 or C+L | L+P | Diff. or C—P | P |
|---|---|---|---|---|---|---|---|---|
| | ″ | ″ | ″ | | ″ | ″ | ″ | ″ |
| Feb. 22 | +39,59 | — —— | + —— | | | | | |
| 23 | 39,66 | 45,64 | 10,03 | | 12,08 | + 2,05 | 10,03 | 0,00 |
| 24 | 38,98 | 45,34 | 9,84 | | | | | —0,24 |
| 25 | 39,15 | 45,47 | 9,86 | | 12,43 | 2,40 | 10,13 | —0,27 |
| 26 | 39,01 | 45,37 | 9,84 | | 13,12 | 2,66 | 10,46 | —0,62 |
| 27 | 38,91 | 45,55 | 9,69 | | 13,29 | 2,47 | 10,82 | 1,13 |
| 28 | 38,84 | 45,45 | 9,72 | | | | | |
| 29 | 38,87 | 45,19 | 9,86 | | | | | |
| Mar. 1 | 38,87 | 45,00 | 9,95 | | 13.65 | 2,19 | 11,46 | 1,51 |
| 2 | 38,98 | 45,02 | 10,00 | Mean=9″,91 | 12,95 | 2,40 | 10,55 | 0,55 |
| 3 | 38,87 | 45,27 | 9,82 | | 12,43 | 2,60 | 9,83 | 0,01 |
| 4 | 38,94 | 45,12 | 9,93 | | 13,12 | 2,60 | 10,52 | 0,59 |
| 5 | 38,87 | —— | —— | | 13,02 | 2,60 | 10,42 | |
| 6 | 39,08 | —— | —— | | 12,69 | 2,37 | 10,32 | |
| 7 | 38,87 | —— | —— | | 12,26 | 2,15 | 10,11 | |
| 8 | 38,87 | 44,75 | 10,08 | | | | | |
| 9 | 39,01 | —— | —— | | 11,23 | 1,72 | 9,51 | |
| 10 | 39,01 | 44,92 | 10,06 | | 11,06 | 1,68 | 9,38 | +0,68 |
| 11 | 38,81 | —— | —— | | 11,06 | 1,68 | 9,38 | |
| 12 | 38,94 | —— | —— | | 10,54 | 1,63 | 8,91 | |
| 13 | 38,91 | —— | —— | | | | | |
| 14 | 38,91 | —— | —— | | 10,71 | 1,32 | 9,39 | |
| 15 | 38,77 | 45,05 | 9,88 | | | | | |
| 16 | 38,77 | 45,37 | 9,72 | | 10,94 | 1,38 | 9,56 | +0,16 |
| 17 | 38,52 | —— | —— | | 10,71 | 1,56 | 9,15 | |
| 18 | 37,88 | —— | —— | | 10,02 | 1,74 | 8 28 | |
| 19 | 38,08 | —— | —— | Mean of 67 | 10,20 | 1,48 | 8,72 | |
| 20 | 38,59 | —— | —— | = +9″,96 | 10,20 | 1,48 | 8,72 | |
| 21 | 38,49 | 45,02 | 9,75 | | | | | |

The extreme difficulty which has hitherto attended the keeping in view of the South Meridian Mark, by reason of the rapid growth of the trees which intervene between it and the Observatory, has at length determined me to give it up altogether; I do this with less reluctance than I otherwise should have done, from the consideration of its instability, and from the persuasion I feel of the Reflecting Collimator being well qualified to supersede the use of two Marks. If we now take the mean of the values in the last column we get P = —0″, 40 whereas from a similar number of observations in 1836, Vol. III. it came out—0″, 77, and from observations at various times with the spirit level (page 1), we obtained for the value of P,—0″, 83; hence the assumption of P, to be—0″, 70 which has been done in the following computations, cannot be far from the truth.

| 1836. | L+P | Ref. Col. 2 or C+L | Diff. or C—P | REMARKS, &c. |
|---|---|---|---|---|
| | ″ | ″ | ″ | |
| March 23 | +0,88 | +10,02 | +9,14 | |
| 25 | 0,88 | 10,02 | 9,14 | |
| 26 | 0,80 | 9,85 | 9,05 | |
| 28 | 0,72 | 9,85 | 9,13 | |
| 29 | 0,86 | 9,85 | 8,99 | |
| April 1 | 1,05 | 9,51 | 8,46 | |
| 2 | 1,10 | 9,85 | 8,75 | |
| 4 | 0,87 | 10,02 | 9,15 | |
| 6 | 0,41 | 10,54 | 10,13 | Mean of 10= +9,32 |
| 7 | —0,05 | 11,23 | 11,28 | — 0,70 |
| | | | | ∴ C= +8,62 |
| 9 | +2,01 | 10,72 | 8,71 | |
| 11 | 0,39 | 9,16 | 8,77 | |
| 12 | 0,35 | 9,68 | 9,33 | |
| 14 | 1,23 | 10,89 | 9,66 | |
| 15 | 0,81 | 11,23 | 10,42 | |
| 16 | 0,40 | 9,94 | 9,54 | |
| 19 | 0,31 | 10,89 | 10,58 | |
| 20 | 0,71 | 10,02 | 9,31 | |
| 21 | 1,11 | 10,37 | 9,26 | Mean of 10= +9,50 |
| 22 | 0,76 | 10,20 | 9,44 | —0,70 |
| | | | | ∴ C= +8,80 |
| 24 | 0,18 | 10,71 | 10,53 | |
| 25 | —0,07 | 10,20 | 10,13 | |
| 26 | 0,11 | 9,51 | 9,62 | |
| 27 | 0,15 | 10,37 | 10,52 | |
| 28 | +0,13 | 10,19 | 10,06 | |
| May 1 | 0,60 | 10,20 | 9,60 | |
| 2 | 0,49 | 10,10 | 9,61 | |
| 3 | 0,38 | 10,10 | 9,72 | |
| 4 | 0,27 | 10,10 | 9,83 | |
| 6 | 0,20 | 10,44 | 10,24 | |
| 7 | 0,25 | 9,08 | 8,83 | Mean of 12= +9,86 |
| 9 | —0,50 | 9,16 | 9,66 | — ,70 |
| | | | | ∴ C= +9,16 |
| 11 | 1,02 | 12,95 | 13,97 | Hot land winds set in |
| 13 | 1,70 | 12,26 | 13,96 | |
| 16 | 0,55 | 12,60 | 13,15 | |
| 20 | 1,25 | 10,56 | 11,81 | |
| 23 | 1,47 | 10,97 | 12,44 | |
| 25 | 1,32 | | | Mean of 6= +13,21 |
| 27 | 1,53 | 12,43 | 13,96 | — 0,70 |
| | | | | ∴ C +12,51 |
| 31 | 1,12 | 11,23 | 12,35 | |
| June 2 | 1,47 | 9,68 | 11,15 | |
| 5 | 1,23 | 10,89 | 12,12 | |
| 8 | 1,07 | 11,23 | 12,30 | |
| 11 | 1,33 | 12,07 | 13,40 | |
| 15 | 0,67 | 14,16 | *14,83 | |

* This is omitted in taking the mean.

| 1836. | L+P | Ref. Col. 2 or C+L | Diff. or C— P | REMARKS, &c. |
|---|---|---|---|---|
| | " | " | " | |
| June 17 | —0,35 | + 12,60 | + 12,95 | |
| 18 | 0,17 | 11,75 | 11,92 | |
| 20 | 0,43 | 11,06 | 11,49 | Mean of 10 = +12",15 |
| 21 | 0,68 | 11,40 | 12,08 | — 0,70 |
| 25 | 0,89 | 10,89 | 11,78 | ∴ C = +11",45 |
| 29 | 0,85 | 10,54 | 11,39 | |
| July 1 | 1,05 | 11,23 | 12,28 | |
| 4 | +0,15 | 11,02 | *10,87 | |
| 7 | —0,16 | 12,01 | 12,17 | |
| 8 | 0,46 | 12,08 | 12,54 | |
| 12 | 0,62 | 12,95 | 13,57 | |
| 13 | 0,62 | 12,26 | 12,88 | |
| 18 | 0,73 | 12,60 | 13,33 | |
| 19 | 0,46 | 10,89 | 11,35 | |
| 20 | 0,19 | 11,43 | 11,62 | Mean of 10 = +12",29 |
| 21 | 0,31 | 11,43 | 11,74 | — 0,70 |
| 23 | 0,43 | 10,37 | 10,80 | ∴ C = +11",59 |
| 25 | 0,26 | 11,45 | 11,71 | |
| 27 | 0,10 | 11,57 | 11,67 | |
| 29 | +0,26 | 10,71 | 10,45 | Mean of 6 = +11",10 |
| 31 | 0,06 | 10,46 | 10,40 | — 0,70 |
| August 1 | —0,14 | 11,40 | 11,54 | ∴ C = +10",40 |
| 11 | +0,54 | 12,43 | 11,89 | The observations with the reflecting collimator from the 11th to the 27th August were made by my assistant Annutachary, to whom I had confidently entrusted them during my absence from Madras;—having on the 29th discovered a strange difference from the observation made on the 27th by the Assistant; I requested him to examine my bisection, when—the cause of disagreement was fully explained, by his reading off the *complimental* number of divisions from the micrometer head instead of the true;—I might readily by allowing for this set the matter right, but since the collimation error appear unchanged, I have preferred cancelling the ref. coll. observations. |
| 12 | | 11,45 | 10,86 | |
| 13 | 0,59 | 12,07 | 11,48 | |
| 14 | | 11,57 | 10,98 | |
| 15 | 0,64 | 10,97 | 10,33 | |
| 16 | 0,85 | | | |
| 17 | | 11,31 | 10,46 | |
| 18 | 1,06 | 10,80 | 9,74 | |
| 19 | | 10,45 | | |
| 22 | 1,53 | 10,80 | 9,27 | |
| 23 | 1,36 | 10,28 | 8,92 | |
| 24 | 1,20 | 10,37 | 9,17 | |
| 26 | 1,38 | 10,71 | 9,33 | |
| 27 | 1,57 | 10,63 | 9,06 | |
| 28 | | | | |
| 29 | 1,39 | 14,32 | 12,93 | |
| Sept. 6 | 1,39 | 14,24 | 12,85 | |
| 7 | 2,21 | | | |
| 9 | 1,83 | 14,32 | 12,49 | |
| 11 | 1,78 | 14,49 | 12,71 | |
| 13 | 1,83 | 14,83 | 13,00 | |
| 15 | 1,87 | 15,18 | 13,31 | |
| 17 | 2,01 | 15,18 | 13,17 | |
| 19 | 2,15 | 15,36 | 13,21 | |

| 1836. | L+P | Ref. Col. 2 or C+L | Diff. or C—P | REMARKS, &c. |
|---|---|---|---|---|
| | ″ | ″ | ″ | |
| Sept. 21 | +1,93 | + 15,36 | + 13,43 | |
| 23 | 1,65 | | | |
| 26 | 2,52 | 15,01 | 12,49 | |
| 29 | 2,59 | 14,83 | 12,24 | |
| Oct. 1 | | | | |
| 2 | 2,36 | | | |
| 3 | 2,12 | 15,18 | 13,06 | |
| 6 | 2,23 | 15,01 | 12,78 | Mean of 14 = +12,86 |
| 8 | 2,92 | 15,35 | 12,43 | — 0,70 |
| | | | | ∴ C = +12,16 |
| 10 | 2,23 | 12,60 | 10,37 | |
| 12 | 1,69 | 13,38 | 11,69 | |
| 14 | 1,44 | 13,12 | 11,68 | |
| 16 | 1,17 | 13,12 | 11,95 | |
| 19 | 1,81 | 12,95 | 11,14 | |
| 21 | 1,97 | 12,95 | 10,98 | |
| 24 | 2,03 | 13,21 | 11,18 | |
| 26 | 1,92 | 13,29 | 11,37 | Mean of 9 = +11,25 |
| 29 | 3,73 | 14,66 | 10,93 | — 0,70 |
| 30 | | | | ∴ C = +10,55 |

A hurricane had shattered the S. E. door of the Observatory to pieces, and broken the micrometer screw of the Transit Instrument—

1836.

Nov. 5, Put in a new set of wires and adjusted the collimation of the centre wire by means of the reflecting collimator.

9, Examined the position of the axis of collimation by the ref. coll.—found correct.

12, do. do. do. do.

17, do. do. do. do.

22, do. do. found the wire a little to the E. adjusted it.

Dec. 1, do. do. found the wire a little to the E. adjusted it.

6, do. do. do. found correct.

9, do. do. do. do. do.

13, do. do. do. do. do.

21, do. do. do. do. do.

24, do. do. do. do. do.

1837

Jany. 2, do. do. found the wire a little to the E. adjusted it.

9, do. do. do. found correct.

14, do. do. found the wire a little to the E. adjusted it

18, I purposely moved the wires about 10″ to the East.

| 1837. | L—P | Ref. Col. 2 or C+L | Diff. or C+P | REMARKS, &c |
|---|---|---|---|---|
| | ″ | ″ | | |
| Jany. 18 | +2,67 | —10,78 | —13,45 | |
| 22 | 2,61 | 9,45 | 12,06 | |
| 25 | 2,55 | 10,34 | 12,89 | |
| 31 | 2,15 | 9,51 | 11,66 | |
| Feb. 4 | 2,50 | 8,31 | 10,81 | Mean of 7 = —11″,48 |
| 7 | 2,47 | 7,00 | 9,47 | P = — 0,70 |
| 10 | 4,20 | 5,84 | 10,04 | C = —10,78 By invers. C = —10″,04 |
| 10 | 4,20 | 10,62 | 14,82 | Increased the coll. error. |
| 14 | 4,37 | 10,63 | 15,00 | |
| 16 | 4,02 | 11,28 | 15,30 | |
| 21 | 3,20 | | | Painted the Transit Instrument. |
| 27 | 4,11 | 10,63 | 14,74 | |
| March 4 | 4,76 | 10,52 | 15,28 | |
| 9 | 3,91 | 11,11 | 15,02 | |
| 13 | 3,21 | 11,60 | 14,81 | |
| 17 | 3,35 | 10,95 | 14,30 | Inverted the axis twice, when C was found —14″,82 |
| 21 | 2,70 | 11,93 | 14,63 | |
| 24 | 2,79 | 12,59 | 15,38 | I took out the object glass to remove a screw which was ratling about on the inside of the telescope;—the screw appeared to be long to the rackwork motion employed for moderating the light;—after which by inversion I found C = — 14″,50. |
| 28 | 3,16 | 11,76 | 14,92 | |
| 31 | 1,91 | 13,27 | 15,18 | |
| April 3 | 1,70 | 13,58 | 15,28 | |
| 6 | 1,62 | 14,90 | 16,52 | |
| 9 | 1,17 | 14,65 | 15,82 | |
| 12 | 1,95 | 13,66 | 15,61 | |
| 15 | 1,90 | 13,08 | 14,98 | |
| 18 | 1,36 | 13,08 | 14,44 | |
| 21 | 2,41 | 11,44 | 13,85 | Mean = —15″,07 |
| 24 | 1,04 | 14,44 | 15,48 | P = — 0,70 |
| | | | | ∴ C = —14,37 |
| 27 | 0,88 | 11,93 | 12,81 | |
| 30 | 1,38 | 11,93 | 13,31 | |
| May 3 | 0,78 | 12,35 | 13,13 | |
| 6 | 0,75 | 12,35 | 13,10 | |
| 9 | 0,66 | 12,93 | 13,59 | |
| 12 | 0,27 | 12,43 | 12,70 | Mean of 7 = —13″,09 |
| 15 | —0,25 | 13,25 | 13,00 | P = — 0,70 |
| | | | | ∴ C = —12,39 |
| 18 | +0,07 | 11,44 | 11,51 | Hot land winds set in. |
| 21 | 0,74 | 10,83 | 11,57 | |
| 24 | 1,00 | 10,67 | 11,67 | |
| 27 | 0,16 | 10,94 | 11,10 | |
| 30 | 1,84 | 11,52 | 13,36 | |
| June 2 | 2,69 | 10,73 | 13,42 | |
| 5 | 0,93 | 11,19 | 12,12 | |
| 8 | 0,78 | 11,44 | 12,22 | Mean of 10 = —11″,94 |
| 11 | 0,55 | 11,11 | 11,66 | P = — 0,70 |
| 14 | 0,07 | 10,70 | 10,77 | ∴ C —11,24 |
| 17 | 1,12 | 11,35 | 12,47 | |

| 1837. | L+P | Ref. Col. 2 or C+L | Diff. or C+P | REMARKS, &c. |
|---|---|---|---|---|
| | " | " | " | |
| June 20 | +0,58 | — 11,27 | — 11,85 | |
| 23 | 1,28 | 11,77 | 13,05 | |
| 26 | 1,23 | 11,44 | 12,67 | |
| 29 | 0,97 | 11,10 | 12,07 | |
| July 2 | 0,72 | 11,44 | 12,16 | |
| 5 | 1,10 | 10,45 | 11,55 | |
| 8 | 0,74 | 11,60 | 12,34 | |
| 11 | 0,95 | 11,11 | 12,06 | Mean of 10 = —12,23 |
| 14 | 1,21 | 10,86 | 12,07 | P = — 0,70 |
| | | | | ∴ C = —11,53 |
| 17 | 0,88 | 11,11 | 11,99 | |
| 20 | 1,47 | 11,60 | 13,07 | On this day I left Madras, for the purpose of |
| 23 | 1,48 | 10,37 | 11,85 | making observations of the magnetic dip and |
| 26 | 1,42 | 10,29 | 11,71 | intensity, towards the South, along the coast |
| 29 | 1,03 | 10,13 | 11,16 | of India; the observations of the reflecting |
| August 1 | 0,84 | 10,94 | 11,78 | collimator were made during my absence by |
| 4 | 1,82 | 10,62 | 12,44 | *Ragavachariar Bramin.* |
| 7 | 2,41 | 10,29 | 12,70 | |
| 10 | 1,64 | 10,29 | 11,93 | |
| 13 | 1,73 | 10,78 | 12,51 | |
| 16 | 1,83 | 11,44 | 13,27 | |
| 19 | 1,90 | 11,52 | 13,42 | |
| 22 | 1,38 | 10,45 | 11,83 | |
| 25 | 1,50 | 9,46 | 10,96 | Mean of 16 = —12,28 |
| 28 | 1,86 | 10,86 | 12,72 | P = — 0,70 |
| 31 | 1,82 | 11,27 | 13,09 | C = 11,58 |
| Sept. 3 | 1,05 | 13,58 | 14,63 | |
| 6 | 1,75 | 13,17 | 14,92 | I should hesitate to employ these numbers, |
| 9 | 1,45 | 13,99 | 15,44 | from the strong probability they exhibit of |
| 12 | 1,40 | 13,83 | 15,23 | error having been committed in the readings |
| | | | | of the reflecting collimator—were it not that |
| 15 | 1,39 | 12,10 | 13,49 | the following note is appended to the observa- |
| 18 | 1,26 | 12,27 | 13,53 | tion of the 3d September by the Assistant |
| 21 | 0,91 | 11,62 | 12,53 | *Ragavachariar Bramin.* "*The equal distances* |
| 24 | 0,84 | 10,29 | 11,13 | *from wire to wire is broad than before.*"* |
| 27 | 1,60 | 11,60 | 13,20 | |
| 30 | 0,50 | 11,44 | 11,94 | |
| Oct. 3 | 2,17 | 11,77 | 13,94 | |
| 6 | 2,26 | 12,11 | 14,37 | |
| 9 | 2,13 | 11,52 | 13,65 | |
| 12 | 1,90 | 11,44 | 13,34 | |
| 15 | 1,87 | 11,19 | 13,06 | |
| 18 | 2,27 | 11,69 | 13,96 | |
| 21 | 2,60 | 10,62 | 13,22 | |
| 24 | 2,50 | 10,86 | 13,36 | |
| 27 | 2,38 | 11,02 | 13,40 | |
| 30 | 2,60 | 10,94 | 13,54 | |
| Nov. 2 | 6,78 | 5,67 | 12,45 | Mean of 18 = —13,14 |
| 5 | 6,82 | 5,67 | 12,49 | P = — 0.70 |
| | | | | ∴ C = —12,44 |

* Given *verbatim et litteratim* from the Level Book.

| 1837. | L+P | Ref. Col. 2 or C+L | Diff. or C+P | REMARKS, &c. |
|---|---|---|---|---|
| | ″ | ″ | ″ | |
| Nov. 8 | +6,74 | —5,18 | —11,92 | |
| 11 | 5,90 | 5,34 | 11,24 | |
| 14 | 5,56 | 5,18 | 10,74 | |
| 17 | 5,10 | 6,00 | 11,10 | |
| 20 | 4,78 | 6,50 | 11,28 | |
| 23 | 5,18 | 5,89 | 11,07 | |
| 26 | 5,29 | 5,51 | 10,80 | |
| 29 | 5,00 | 5,67 | 10,67 | |
| Dec. 2 | 5,09 | 5,51 | 10,60 | |
| 5 | 4,99 | 5,43 | 10,42 | |
| 8 | 5,33 | 5,87 | 11,20 | |
| 11 | 5,70 | 5,95 | 11,65 | |
| 14 | 3,58 | 7,90 | 11,48 | |
| 17 | 2,85 | 7,98 | 10,83 | |
| 20 | 2,25 | 10,12 | 12,37 | |
| 23 | 2,50 | 9,79 | 12,29 | |
| 26 | 2,40 | 9,79 | 12,19 | Mean of 18 = —11″,29 |
| 29 | 1,99 | 9,46 | 11,45 | P = — 0″,70 |
| | | | | C = —10″,59 |

In the reduction of the observations, these *mean* values of C, together with the reduction to the centre wire (given at pages 1—3), and the correction for Diurnal Aberration, have been applied to each observation; thus, for any day in December 1837, the correction in time $= -\frac{,706 + ,053 + ,020}{\sin \text{N. P. D.}} = \frac{0,779s}{\sin \text{N. P. D.}}$

## ERROR OF AZIMUTH.

If the Transit Telescope be directed to the north horizon, the deviation of the centre wire from the meridian mark is represented by N+C, (where C represents the error of collimation); and, if $a$ represent the angular deviation of the meridian mark from the meridian,—

*The deviation of the centre wire from the Meridian*
as exhibited by the North Mark will be $= \pm a \pm \text{N} \pm \text{C}$
similarly—— ——South Mark will be $= \pm a' \pm \text{S} \mp \text{C}$
and the mean result will be $a = \pm \frac{a \pm a' \pm \text{N} \pm \text{S}}{2}$

In Volume III p. 20, the value of $a - a'$ was found 93″,52, and, since we have found (page 5) the value of $a + a'$ to be—26″,03, we may state the North

Mark to be situated 33″,74 to the *West* of the Meridian, and the South Mark to be situated 59″,77 to the *East* of the Meridian.

The observations of 1836 furnish a few transits of Polaris with which we will now re-examine the above values—

## POLARIS.

| 1835 | Observed Transit. | Clock Error. | Aberration &c. | Correction for Level. | Correction for Collimation. | Mean Right Ascension January 1, 1836. | | |
|---|---|---|---|---|---|---|---|---|
| | h. m. s. | m. s. | s. | s. | s. | h. m. s. | | |
| Dec. 24 | 1 2 2,87 | —1, 10,27 | +3,99 | —2,47 | +23,75 | 1 1 17,87 | $+ a$ | $\times$ 2,370 |
| 25 | 2,99 | 12,90 | 4,81 | | | 16,19 | $a^{i}$ | —— |
| 26 | 7,27 | 15,15 | 5,61 | | | 19,01 | $a^{ii}$ | —— |
| 27 | 7,17 | 15,98 | 6,38 | | | 18,85 | $a^{iii}$ | —— |
| 28 | 8,99 | 17,37 | 7,13 | | | 20,03 | $a^{iv}$ | —— |
| 29 | 9,71 | 18,10 | 7,82 | | | 20,71 | $a^{v}$ | —— |
| 30 | 8,75 | 19,10 | 8,50 | | | 19,43 | $a^{vi}$ | —— |
| 31 | 6,82 | 20,80 | 9,20 | | | 16,50 | $a^{vii}$ | —— |
| 1836 | | | | | | | | |
| Jan. 2 | 8,53 | 21,83 | 10,64 | —2,31 | +25,44 | 21,47 | $a^{ix}$ | —— |
| 3 | 8,08 | 22,82 | 11,40 | | | 19,79 | $a^{x}$ | —— |
| 4 | 9,50 | 23,48 | 12,19 | | | 21,34 | $a^{xi}$ | —— |
| 6 | 4,33 | 23,23 | 13,91 | | | 18,14 | $a^{xiii}$ | —— |
| 7 | 3,83 | 22,20 | 14,80 | | | 19,56 | $a^{xiv}$ | —— |
| 8 | 59,27 | 20,62 | 15,69 | | | 17,47 | $a^{xv}$ | —— |
| 10 | 56,67 | 18,08 | 17,39 | | | 19,11 | $a^{xvi}$ | —— |

where $a^{i}$, $a^{ii}$, &c. represent the Azimuth errors in seconds of space.

## POLARIS. S. P.

| 1835. | Observed Transit. | Clock Error. | Aberration &c. | Correction for Level. | Correction for Collimation. | Mean Right Ascension January 1, 1836. | | |
|---|---|---|---|---|---|---|---|---|
| | h. m. s. | m. s. | s | s | s. | h. m. s. | | |
| Dec. 25 | 13 2 25,00 | —1, 14,35 | +5,21 | +1,95 | —23,75 | 13 0 54,07 | $- a^{i}$ | $\times$ 2,408 |
| 26 | 22,95 | 16,15 | 6,00 | | | 51,00 | $a^{ii}$ | —— |
| 27 | 23,31 | 16,67 | 6,75 | | | 51,59 | $a^{iii}$ | —— |
| 28 | 21,48 | 17,73 | 7,47 | | | 49,42 | $a^{iv}$ | —— |
| 29 | 24,53 | 18,55 | 8,16 | | | 52,34 | $a^{v}$ | —— |
| 30 | 27,82 | 19,90 | 8,85 | | | 54,97 | $a^{vi}$ | —— |
| 1836 | | | | | | | | |
| Jan. 1 | 28,93 | 21,50 | 10,29 | +1,83 | —25,44 | 54,11 | $a^{viii}$ | —— |
| 3 | 27,67 | 23,24 | 11,80 | | | 52,62 | $a^{x}$ | —— |
| 5 | 26,88 | 23,30 | 13,48 | | | 53,45 | $a^{xii}$ | —— |
| 6 | 29,35 | 22,71 | 14,36 | | | 57,39 | $a^{xiii}$ | —— |

We have found above, that any value $a = \frac{a \pm a'}{2} + \frac{N \pm S}{2}$; in which,—substituting for $\frac{N-S}{2}$, the values found at page 10 &c. we determine.

| | | | | | |
|---|---|---|---|---|---|
| 1835 | December | 24 | ——— $a$ | $= 42,27 - \frac{a-a'}{2}$ | |
| | | 25 | ——— $a^{i}$ | $= 42,27 -$ ——— | |
| | | 26 | ——— $a^{ii}$ | $= 41,25 -$ ——— | |
| | | 27 | ——— $a^{iii}$ | $= 41,33 -$ ——— | |
| | | 28 | ——— $a^{iv}$ | $= 41,45 -$ ——— | |
| | | 29 | ——— $a^{v}$ | $= 41,43 -$ ——— | |
| | | 30 | ——— $a^{vi}$ | $= 41,26 -$ ——— | |
| | | 31 | ——— $a^{vii}$ | $= 41,23 -$ ——— | |
| 1836 | January | 1 | ——— $a^{viii}$ | $= 41,29 -$ ——— | |
| | | 2 | ——— $a^{ix}$ | $= 41,28 -$ ——— | |
| | | 3 | ——— $a^{x}$ | $= 41,43 -$ ——— | |
| | | 4 | ——— $a^{xi}$ | $= 41,33 -$ ——— | |
| | | 5 | ——— $a^{xii}$ | $= 41,46 -$ ——— | |
| | | 6 | ——— $a^{xiii}$ | $= 41,34 -$ ——— | |
| | | 7 | ——— $a^{xiv}$ | $= 41,30 -$ ——— | |
| | | 8 | ——— $a^{xv}$ | $= 41,36 -$ ——— | |
| | | 10 | ——— $a^{xvi}$ | $= 41,35 -$ ——— | |

employing these values of $a$, $a^{1}$ &c. with the above observations, we obtain the

## MEAN A. R. OF POLARIS, JAN. 1, 1836.

*From observations at the superior culmination.* *From observations at the inferior culmination.*

h. m. s. h. m. s.

*1 1 19,03 $+\left(41,46 - \frac{a-a^{1}}{2}\right) \times 2,370 = 1\ 0\ 53,10 - \left(41,45 - \frac{a-a^{1}}{2}\right) \times 2,408$

from which we readily deduce $a - a^{1} = 93'',76$; or $a = 33'',87$ and $a^{1} = -59'',89$, agreeing very nearly with the hitherto supposed values. In the reduction of the Observations from January 1st to March 16th 1836, the Azimuth correction has consequently been computed from the formulæ $\frac{N-S-93'',76}{2}$

For the remaining days of the month of March, and up to the end of October 1836,—in consequence of the difficulty of keeping the South Mark in view, (as has been already explained), the distance of the centre wire from the North Mark, or $a \pm N \pm C$ only, was observed; (in which, $a$ has been assumed 33″, 87 as just found, and the values of C have already been given at page 11 &c). On the 3d November 1836,—being deprived of the means of measuring the distance of the centre wire from the meridian mark,—as a temporary measure, I adjusted it to the eastern side of it, (as being more nearly in the meridian than its centre); finding however that the azimuth corrections was still inconveniently large,—on the 22d November the Instrument was adjusted to a temporary circular disc, which I had caused to be affixed to the pier which had hitherto supported the old mark; I had intended to have placed this new mark "in the meridian", but from some mistake in the measurement, an alteration of only half the required amount was made;—to remedy this, on the 8th December

* Mean A. R. January 1, $\begin{cases} 1836 & h.\ m.\ s. \\ 1837 & 1\ 1\ 6,06 \\ & \quad\ \ 22,15 \end{cases}$

1836, I adjusted the instrument to another mark—(a parallelogram), which I had caused to be permamently affixed to the pier, at a still further distance from the old mark, towards the east; this being conveniently situated,—from the 8th December 1836 I have continued to adjust the centre wire when necessary to the mark, instead of measuring as hitherto its distance from it. Calling $a''$, the azimuth from the meridian, of the side of the old mark, to which the instrument was adjusted from the 3d to the 22d November inclusive; $a'$, the azimuth of the circular disc employed from 23d November 1836 to 17th January 1837, and $a$, the azimuth of that since employed we can,—from the observations of *Polaris* made about this time, compute their values.

## POLARIS.

| 1836 | Observed Transit. | Clock Error. | Aberration &c. | Correction for Level. | Correction for Collimation. | Mean Right Ascension January 1, 1837. |
|---|---|---|---|---|---|---|
| | h. m. s. | m. s. | s. | | | h. m. s. |
| Nov. 7 | 1 0 31,00 | + 1 36,35 | —17,55 | .... | .... | 1 1 49,80 —$a''$ × 2,368 |
| 9 | 0 39,00 | 1 27,99 | 16,92 | .... | .... | 50,07 —— —— |
| 10 | 0 45,00 | 1 24,11 | 16,58 | .... | .... | 52,53 —— —— |
| 11 | 0 47,00 | 1 21,57 | 16,23 | .... | .... | 52,34 —— —— |
| 12 | 0 49,00 | 1 19,65 | 15,87 | .... | .... | 52,78 —— —— |
| Dec. 5 | 1 18,00 | 0 24,78 | 4,56 | .... | .... | 38,23 —$a'$ × 2,370 |
| 6 | 1 23,65 | 0 19,50 | 3,93 | .... | | 39,22 —— —— |
| 7 | 1 31,67 | 0 16,60 | 3,29 | .... | .... | 44,98 —— —— |
| 10 | 1 27,20 | 0 4,25 | 1,37 | | | 30,08 —$a$ × 2,370 |
| 11 | 1 23,00 | 0 3,23 | 0,72 | | | 25,61 —— —— |
| 12 | 1 25,00 | 0 2,24 | 0,05 | | .... | 27,19 —— —— |
| 17 | 1 25,10 | 1 2,73 | + 3,42 | | .... | 30,25 —— —— |
| 18 | 1 21,00 | 1 6,42 | 4,12 | .... | .... | 31,54 —— —— |
| 19 | 1 16,00 | 1 10,12 | 4,82 | .... | .... | 30,94 —— —— |
| 20 | 1 10,00 | 1 13,67 | 5,55 | .... | .... | 29,22 —— —— |
| 21 | 1 8,00 | 1 17,22 | 6,28 | .... | .... | 31,50 —— —— |
| 23 | 1 0,00 | 1 24,46 | 7,77 | .... | .... | 32,23 —— —— |
| 24 | 59 56,00 | 1 27,88 | 8,50 | .... | .... | 32,36 —— —— |
| 26 | 59 50,00 | 1 34,52 | 9,98 | .... | .... | 34,50 —— —— |
| 31 | 59 28,00 | 1 49,40 | 13,81 | | | |
| 1837 | | | | .... | .... | 31,21 —— —— |
| Jan. 2 | 59 20,00 | 1 53,39 | 15,40 | .... | .... | 28,79 —— —— |
| 3 | 59 19,00 | 1 54,12 | 16,21 | .... | .... | 29,33 —— —— |
| 4 | 59 15,00 | 1 55,88 | 17,01 | .... | .... | 27,89 —— —— |
| 5 | 59 12,00 | 1 56,76 | 17,81 | .... | .... | 26,57 —— —— |
| 6 | 1 2 12,00 | — 1 2,50 | 18,59 | .... | .... | 28,09 —— —— |
| 7 | 2 14,00 | 1 1,40 | 19,40 | .... | .... | 32,00 —— —— |
| 8 | 2 8,50 | 1 0,05 | 20,20 | .... | .... | 28,65 —— —— |
| 9 | 2 6,17 | 0 58,60 | 20,99 | .... | .... | 28,56 —— —— |
| 10 | 2 10,50 | 0 57,10 | 21,78 | .... | .... | 35,18 —— —— |
| 11 | 2 5,25 | 0 55,60 | 22,57 | .... | .... | 32,22 —— —— |
| 12 | 2 2,75 | 0 53,66 | 23,37 | .... | .... | 32,46 —— —— |

## POLARIS S. P.

| 1836 | Observed Transit. | Clock Error. | Aberration &c. | Correction for Level. | Correction for Collimation. | Mean Right Ascension January 1, 1837. |
|---|---|---|---|---|---|---|
| | h. m. s. | m. s. | s. | | | h. m. s. |
| Dec. 20 | 13 0 55,75 | +1 15,44 | +5,92 | .... | .... | 13 1 17,11 —$a$ × 2,408 |
| 26 | 12 59 30,00 | 1 36,00 | 10,37 | .... | .... | 16,37 — |
| 1837 | | | | | | |
| Jan. 2 | 12 59 14,00 | 1 53,75 | 15,81 | .... | .... | 23,56 — |
| 3 | 59 13,00 | 1 55,00 | 16,61 | .... | .... | 24,61 — |
| 4 | 59 3,25 | 1 56,32 | 17,41 | .... | .... | 16,97 — |
| 5 | 13 2 4,33 | —1 3,63 | 18,20 | .... | .... | 18,90 — |
| 6 | 1 59,00 | 1 1,95 | 18,99 | .... | .... | 16,04 — |
| 7 | 1 52,17 | 1 0,62 | 19,80 | .... | .... | 11,35 — |
| 8 | 1 51,25 | 0 59,32 | 20,59 | .... | .... | 12,52 — |
| 9 | 1 55,25 | 0 57,85 | 21,38 | .... | .... | 18,78 — |
| 10 | 1 50,75 | 0 56,21 | 22,17 | .... | .... | 16,71 — |
| 11 | 1 50,50 | 0 54,63 | 22,97 | .... | .... | 18,84 — |

Taking the mean, we have from

| | | | Mean A. R. Polaris January 1, 1837. |
|---|---|---|---|
| | | | h. m. s. |
| 5 observations above Pole | .... | .... | 1 1 51,50 ± $a''$ × 2,368 |
| 3 ——— —— — | .... | .... | 1 1 40,81 ± $a'$ × 2,370 |
| 23 ——— —— — | .... | .... | 1 1 30,28 ± $a$ × 2,370 |
| 12 ——— below — | .... | .... | 13 1 17,65 ± $a$ × 2,408 |

for the determination of $a''$ and $a'$ we must now employ the already found mean plan for January 1, 1837 = 1*h*. 1*m*. 22,15*s*.

when $a''$ = 12″,40 West
$a'$ = 7″,87 ——
$a$ = 2″,64 ——

As a confirmation of the value of $a$, I have lately measured the angular distance between the old mark and the one now in use, when, from the mean of several measures —

The new mark appeared to be situated 31″,29 to the East of the old mark.
The old mark we have found to be 33″,87 West of the meridian.
∴ The new mark is situated 2″,58 West of the meridian.

And for a confirmation of the situation of the mark which gave rise to the value $a''$,—this I find to be situated 21″,97 East of the old mark.
The old mark is situated 33″,87 West of the meridian.
∴ $a''$ = 11″,90 West of the meridian.

We will now proceed with the values of N & S given at page 11 &c. to compute the values of (A,) the deviation in Azimuth—

| 1836 | | N—S | A or (N—S—93″,76)/2 | Remarks, &c. |
|---|---|---|---|---|
| | | ′ ″ | ″ | |
| Jan. | 1 | 1 22,59 | —5,58 | |
| | 2 | 22,56 | 5,60 | |
| | 3 | 22,86 | 5,45 | |
| | 4 | 22,66 | 5,55 | |
| | 5 | 22,93 | 5,41 | |
| | 6 | 22,69 | 5,53 | |
| | 7 | 22,59 | 5,58 | |
| | 8 | 22,73 | 5,51 | |
| | 9 | 22,83 | 5,47 | |
| | 10 | 22,70 | 5,53 | Mean of 10 = — 5″,21 |
| | 11 | 22,50 | 5,63 | |
| | 12 | 22,63 | 5,56 | |
| | 13 | 22,74 | 5,51 | |
| | 14 | 22,35 | 5,70 | |
| | 15 | 22,08 | 5,84 | |
| | 16 | 22,24 | 5,76 | |
| | 17 | 22,32 | 5,72 | |
| | 18 | 21,94 | 5,91 | |
| | 19 | 21,87 | 5,94 | |
| | 20 | 22,12 | 5,82 | Mean of 10 = — 5″,74 |
| | 21 | 22,42 | 5,67 | |
| | 22 | 22,32 | 5,72 | |
| | 23 | 22,19 | 5,78 | |
| | 24 | 22,70 | 5,53 | |
| | 25 | 22,18 | 5,79 | |
| | 26 | 22,32 | 5,72 | |
| | 27 | 22,53 | 5,61 | |
| | 28 | 22,53 | 5,61 | |
| | 29 | 22,80 | 5,48 | |
| | 30 | 22,70 | 5,53 | Mean of 10 = — 5″,64 |
| | 31 | 22,73 | 5,51 | |
| Feb. | 1 | 22,49 | 5,63 | |
| | 2 | 22,42 | 5,67 | |
| | 4 | 1 22,36 | —5,70 | |
| | 5 | 22,29 | 5,73 | |
| | 6 | 22,60 | 5,58 | |
| | 7 | 22,50 | 5,63 | |
| | 8 | 22,47 | 5,64 | |
| | 9 | 22,49 | 5,63 | |
| | 10 | 22,50 | 5,63 | Mean of 10 = — 5″,63 |
| | 11 | 22,64 | 5,56 | |
| | 12 | 22,93 | 5,41 | |
| | 13 | 23,34 | 5,21 | |
| | 14 | 23,04 | 5,36 | |
| | 15 | 23,58 | 5,09 | |
| | 16 | 23,50 | 5,13 | |
| | 17 | 23,54 | 5,11 | |
| | 18 | 23,44 | 5,16 | |
| | 19 | 23,21 | 5,27 | Mean of 9 = — 5″,26 |
| | 20 | 24,59 | 4,59 | I took out the object glass to clean it. |
| | 21 | 24,95 | 4,40 | |
| | 23 | 25,30 | 4,23 | |
| | 24 | 24,32 | 4,72 | |
| | 25 | 24,62 | 4,57 | |
| | 26 | 24,38 | 4,69 | |
| | 27 | 24,46 | 4,65 | |
| | 28 | 24,28 | 4,74 | |
| | 29 | 24,06 | 4,85 | |
| March | 1 | 23,87 | 4,94 | |
| | 2 | 24,00 | 4,88 | |
| | 3 | 24,14 | 4,81 | |
| | 4 | 24,06 | 4,85 | |
| | 8 | 23,62 | 5,07 | |
| | 10 | 23,93 | 4,91 | |
| | 15 | 23,82 | 4,97 | |
| | 16 | 24,14 | 4,81 | Mean of 17 = — 4″,75 |

The South Mark being invisible (by reason of trees having grown in the way) the observation of the North Mark only will be attended to in future.

| 1836 | | N | C | N—C—33″,87 = A | Remarks. |
|---|---|---|---|---|---|
| | | ″ | ″ | ″ | |
| Mar. | 22 | +38,42 | + 8,62 | —4,07 | |
| | 23 | 38,12 | .. | 4,37 | |
| | 24 | 38,39 | .. | 4,10 | |
| | 25 | 38,32 | .. | 4,17 | |
| | 26 | 38,42 | .. | 4,07 | |
| | 28 | 38,18 | .. | 4,31 | |
| | 29 | 38,08 | .. | 4,41 | |
| | 30 | +38,32 | + 8,62 | —4,17 | |
| | 31 | 38,29 | .. | 4,20 | |
| April | 1 | 38,39 | .. | 4,10 | Mean of 10 = — 4″,20 |
| | 2 | 38,39 | .. | 4,10 | |
| | 3 | 38,32 | .. | 4,17 | |
| | 4 | 38,18 | .. | 4,31 | |
| | 5 | 38,18 | .. | 4,31 | |

| 1836 | N | C | N—C—33″,87 = A | REMARKS. |
|---|---|---|---|---|
| | ″ | ″ | ″ | |
| April 6 | +38,25 | + 8,62 | —4,24 | |
| 7 | 38,15 | .. | 4,34 | |
| 8 | 38,22 | 8,80 | 4,45 | |
| 9 | 38,46 | .. | 4,01 | |
| 10 | 38,25 | .. | 4,42 | |
| 11 | 38,36 | .. | 4,31 | Mean of 10 = — 4″,27 |
| 12 | 37,91 | .. | 4,76 | |
| 13 | 37 98 | .. | 4,69 | |
| 14 | 38,29 | .. | 4,38 | |
| 15 | 38,42 | .. | 4,25 | |
| 16 | 38,35 | .. | 4,32 | |
| 17 | 38.65 | .. | 4,02 | |
| 18 | 38,39 | .. | 4,28 | |
| 19 | 38,42 | .. | 4,25 | |
| 20 | 38,29 | .. | 4,38 | |
| 21 | 38,18 | .. | 4,49 | Mean of 10 = — 4″,38 |
| 22 | 38,49 | .. | 4.18 | |
| 23 | 38,46 | 9,16 | 4,57 | |
| 24 | 38.70 | .. | 4,33 | |
| 25 | 38,78 | .. | 4,25 | |
| 26 | 38,81 | .. | 4,22 | |
| 27 | 38,87 | .. | 4,16 | |
| 28 | 38,66 | .. | 4,37 | |
| 29 | 38,52 | .. | 4,51 | |
| 30 | 38,66 | .. | 4,37 | Mean of 10 = — 4″,37 |
| May 1 | 38,29 | .. | 4,74 | |
| 2 | 38,22 | .. | 4,81 | |
| 3 | 38,66 | .. | 4,37 | |
| 4 | 38,49 | .. | 4,54 | |
| 5 | 38,42 | .. | 4,61 | |
| 6 | 38,35 | .. | 4,68 | |
| 7 | 38,35 | .. | 4,68 | |
| 8 | 38,94 | .. | 4,09 | |
| 9 | 38,84 | .. | 4,19 | |
| 10 | 41,07 | 12,51 | 5,31 | |
| 11 | 41,97 | .. | 4,41 | Mean of 10 = — 4″,57 |
| 12 | 41,68 | .. | 4,70 | |
| 13 | 42,00 | .. | 4,38 | |
| 14 | 42,24 | .. | 4,14 | |
| 15 | 41,79 | .. | 4,59 | |
| 16 | 41,61 | .. | 4,77 | |
| 17 | 41,93 | .. | 4,45 | |
| 18 | 42,30 | .. | 4,08 | |
| 19 | 42,33 | .. | 4,05 | Mean of 8 = — 4″,39 |
| 20 | 42,65 | .. | 3,73 | |
| 21 | 42,72 | .. | 3,66 | |
| 22 | 42,86 | .. | 3,52 | |
| 23 | 42,86 | .. | 3.52 | |
| 24 | 42,96 | .. | 3,42 | |
| 25 | 42,89 | .. | 3,49 | |
| 26 | 42,93 | .. | 3,45 | |
| 27 | 42,86 | .. | 3,52 | |
| 28 | 43.03 | .. | 3,35 | |

| 1836 | N | C | N—C—33″,87 = A | REMARKS. |
|---|---|---|---|---|
| | ″ | ″ | ″ | |
| May 29 | +43,13 | +12,51 | —3,25 | |
| 30 | 43,31 | .. | 3,07 | Mean of 11 = — 3″,45 |
| 31 | 43,13 | 11,45 | 2,19 | |
| June 1 | 43,21 | .. | 2,11 | |
| 2 | 43,34 | .. | 1,98 | |
| 3 | 43.13 | .. | 2,19 | |
| 4 | 43,06 | .. | 2,26 | |
| 5 | 43,34 | .. | 1,98 | |
| 6 | 43,95 | .. | 1,37 | |
| 7 | 43,56 | .. | 1,76 | |
| 8 | 43,45 | .. | 1,87 | |
| 9 | 43,56 | .. | 1,76 | |
| 10 | 43,56 | .. | 1,76 | |
| 11 | 43,24 | .. | 2,08 | |
| 12 | 43,49 | .. | 1,83 | |
| 13 | 43,31 | .. | 2,01 | Mean of 14 = — 1″,94 |
| 14 | 43,13 | .. | 2,19 | |
| 15 | 42,65 | .. | 2,67 | |
| 16 | 42,62 | .. | 2,70 | |
| 17 | 42,83 | .. | 2,49 | |
| 18 | 42,96 | .. | 2,36 | |
| 19 | 42,89 | .. | 2,43 | |
| 20 | 43,13 | .. | 2,19 | |
| 21 | 42,99 | .. | 2,33 | |
| 22 | 43,28 | .. | 2,04 | |
| 23 | 42,86 | .. | 2,46 | Mean of 10 = — 2″,39 |
| 24 | 42,86 | .. | 2,46 | |
| 25 | 42,76 | .. | 2,56 | |
| 26 | 42,96 | .. | 2,36 | |
| 27 | 42,96 | .. | 2,36 | |
| 28 | 42,99 | .. | 2,33 | |
| 29 | 42 86 | 11,59 | 2,60 | |
| 30 | 42,89 | .. | 2,57 | |
| July 1 | 42,62 | .. | 2,84 | |
| 2 | 43,21 | .. | 2,25 | |
| 3 | 43,13 | .. | 2,33 | Mean of 10 = — 2″,47 |
| 4 | 42,89 | .. | 2,57 | |
| 5 | 43,06 | .. | 2,40 | |
| 6 | 43,24 | .. | 2,22 | |
| 7 | 43,17 | .. | 2,29 | |
| 8 | 43,14 | .. | 2,32 | |
| 9 | 43,31 | .. | 2,15 | |
| 10 | 43,31 | .. | 2,15 | |
| 11 | 43,31 | .. | 2,15 | |
| 12 | 43,31 | .. | 2,15 | |
| 13 | 43,59 | .. | 1,87 | Mean of 10 = — 2″,23 |
| 14 | 43,41 | .. | 2,05 | |
| 15 | 43,66 | .. | 1,80 | |
| 16 | 43,73 | .. | 1,73 | |
| 17 | 43,83 | .. | 1,63 | |
| 18 | 43,91 | .. | 1,55 | |
| 19 | 43,76 | .. | 1,70 | |
| 20 | 43,73 | .. | 1,73 | |

| 1836 | N | C | N—C—33″,87 = A | Remarks. |
|---|---|---|---|---|
| | ″ | ″ | ″ | |
| July 21 | +43,66 | +11,59 | —1,80 | |
| 22 | 43,54 | .. | 1,92 | Mean of 9 = — 1″,77 |
| 23 | 43,54 | 10,40 | 0,73 | |
| 24 | 43,38 | .. | 0,89 | |
| 25 | 43,56 | .. | 0,71 | |
| 26 | 43,59 | .. | 0,68 | |
| 27 | 43,63 | .. | 0,64 | |
| 28 | 43,59 | .. | 0,68 | |
| 30 | 43,87 | .. | 0,40 | |
| 31 | 43,69 | .. | 0,58 | |
| Aug. 1 | 43,48 | .. | 0,79 | |
| 2 | 43,66 | .. | 0,61 | Mean of 10 = — 0″,67 |
| 3 | 43,63 | .. | 0,64 | |
| 4 | 43,31 | .. | 0,96 | |
| 5 | 43,34 | .. | 0,93 | |
| 6 | 43,52 | .. | 0,75 | |
| 7 | 43,34 | .. | 0,93 | |
| 8 | 43,17 | .. | 1,10 | |
| 9 | 43,69 | .. | 0,58 | |
| 10 | 43,69 | .. | 0,58 | |
| 11 | 43,34 | .. | 0,93 | |
| 12 | 43,41 | .. | 0,86 | Mean of 10 = — 0″,83 |
| 13 | 44,01 | .. | 0,26 | |
| 14 | 43,66 | .. | 0,61 | |
| 15 | 43,52 | .. | 0,75 | |
| 16 | 43,69 | .. | 0,58 | |
| 17 | 43,80 | .. | 0,47 | |
| 18 | 43,83 | .. | 0,44 | |
| 19 | 43,90 | .. | 0,37 | |
| 20 | 43,80 | .. | 0,47 | |
| 21 | 43,69 | . | 0,58 | |
| 22 | 43,59 | .. | 0,68 | Mean of 10 = — 0″,52 |
| 23 | 43,90 | .. | 0,37 | |
| 24 | 43,63 | .. | 0,64 | |
| 25 | 43,63 | .. | 0,64 | |
| 26 | 43,69 | .. | 0,58 | |
| 27 | 45,30 | 12,16 | 0,73 | Mean of 5 = — 0″,59 |
| 28 | 44,34 | .. | 1,69 | |
| 29 | 44,07 | .. | 1,96 | |
| 30 | 44,14 | .. | 1,89 | |
| 31 | 44,07 | .. | 1,96 | |
| Sep. 1 | 44,08 | .. | 1,95 | |
| 2 | 43,87 | .. | 2,16 | |
| 3 | 43,90 | .. | 2,13 | Mean of 7 = — 1″,96 |
| 4 | 43,21 | .. | 2,82 | |
| 5 | 43,48 | .. | 2,55 | |
| 6 | 43,55 | .. | 2,48 | |
| 7 | 43,76 | .. | 2,27 | |
| 8 | 43,21 | .. | 2,82 | |
| Sep. 9 | +43,21 | +12,16 | —2,82 | |
| 10 | 43,31 | .. | 2,72 | |
| 11 | 43,13 | .. | 2,90 | |
| 12 | 43,00 | .. | 3,03 | |
| 13 | 42,89 | .. | 3,14 | Mean of 10 = — 2″,75 |
| 14 | 42,77 | .. | 3,26 | |
| 15 | 43,28 | .. | 2,75 | |
| 16 | 43,03 | .. | 3,00 | |
| 17 | 43,17 | .. | 2,86 | |
| 18 | 43,20 | .. | 2,83 | |
| 19 | 43,03 | .. | 3,00 | |
| 20 | 43,31 | .. | 2,72 | |
| 21 | 43,03 | .. | 3,00 | |
| 22 | 43,38 | .. | 2,65 | |
| 23 | 43,31 | .. | 2,72 | Mean of 10 = — 2″,88 |
| 24 | 43,34 | .. | 2,59 | |
| 25 | 43,37 | .. | 2,66 | |
| 26 | 43,31 | .. | 2,72 | |
| 27 | 43,03 | .. | 3,00 | |
| 28 | 43,06 | .. | 2,97 | |
| Oct. 2 | 42,88 | .. | 3,15 | |
| 3 | 43,39 | .. | 2,64 | |
| 4 | 43,00 | .. | 3,03 | |
| 5 | 43,38 | .. | 2,65 | |
| 6 | 42,96 | .. | 3,07 | |
| 7 | 43,13 | .. | 2,90 | |
| 8 | 43,31 | .. | 2,72 | |
| 9 | 43,62 | .. | 2,41 | Mean of 13 = — 2″,81 |
| 10 | 39,18 | 10,55 | 5,24 | |
| 11 | 39,28 | .. | 5,14 | |
| 12 | 39,45 | .. | 4,97 | |
| 13 | 39,55 | .. | 4,87 | |
| 14 | 39,52 | .. | 4,90 | |
| 15 | 39,76 | .. | 4 66 | |
| 16 | 40,46 | .. | *3,96 | |
| 17 | 39,76 | .. | 4,66 | |
| 18 | 39,93 | .. | 4,49 | |
| 19 | 39,79 | .. | 4,63 | |
| 20 | 39,52 | .. | 4 90 | |
| 21 | 39,93 | .. | 4,49 | |
| 22 | 39,86 | .. | 4 56 | |
| 23 | 39,79 | .. | 4,63 | |
| 24 | 39,59 | .. | 4,83 | |
| 25 | 39,67 | .. | 4,65 | |
| 26 | 40,03 | .. | 4,39 | |
| 27 | 40,18 | .. | 4,24 | |
| 28 | 40,36 | .. | 4,06 | |
| 29 | 39,66 | .. | 4,76 | Mean of 19 = — 4″,68 |

* This is omitted in taking the Mean.

On the 3rd November 1836 the centre wire was brought to touch the *edge* of the North mark; hence, *from this date up to the 21st November* 1836 *the Instrumental error in Azimuth* was NORTH 12″,40 WEST.

On the 22d November I adjusted the centre wire to bisect a mark which had been erected to the East of the above;—hence, as has already been shewn;—*from this date up to the 7th December* 1836 *the Instrumental error in Azimuth was* NORTH 7″,87 WEST.

On the 8th December the Instrument was adjusted to a permanent mark, which I had caused to be erected nearly in the direction of the meridian, upon the old Northern Pier; hence;—

from the 8th December 1836 to 17th January 1837 the Instrumental error in Azimuth was } N 2″,64 W.

In the intervals just alluded to, the coincidence of the centre wire with the mark was examined every day at Sun rise and Sun set, and on two occasions —On January 6th, and 8th, a small correction of the bisection was made for a deviation to the East of the meridian.

Since the 18th January 1837, the coincidence of the centre wire with the mark has been examined every day at Sun rise and Sun set, and adjustment made when necessary; hence, if C represent the error of Collimation, the Azimuth error A=C$\pm$ 2″,64; thus—

| 1837. | C | A | |
|---|---|---|---|
| | ″ | ″ | |
| Jan. 18 to Feb. 10 | —10,78 | — 8,14 | I increased the Collimation, and consequently the Azimuthal error. |
| Feb. 10—April 26 | 14,37 | 11,73 | In this interval no adjustment to the mark was found necessary. |
| April 27—May 15 | 12,39 | 9,75 | On the 27th April an adjustment was made for a deviation of about 2″ to the East of the N. Meridian. |
| May 16—June 14 | 11,24 | 8,60 | In this interval no adjustment to the mark was found necessary. |
| June 15—July 14 | 11,53 | 8,89 | On the 25th June at Sun set, adjustment was made for a deviation of about 1″ to the West of the N. |
| July 15—Aug. 31 | 11,58 | 8,94 | Observed by my head assistant *Ragavachariar*—No adjustment to the meridian was necessary during this period. |
| Sep. 1—Sep. 12 | 15,06 | 12,42 | Observed by *Ragavachariar* (see p. 16.) but no adjustment necessary—It happens fortunately, that during this doubtful period, it was very cloudy weather. |
| Sep. 13—Nov. 5 | 12,44 | 9,80 | Up to October, 15th, the observations were made by *Ragavachariar*—to whom I had entrusted them during my absence, with orders not to attempt an adjustment, but to make an estimate of the errors if any:—his remarks are as follows— "Sepember 21st *morning being Astronomical day—The centre wire does not bisect the mark*". appended to this is a drawing of the appearance of the mark and wire, from which I estimate that a deviation of 1″ to the East |

| | | | |
|---|---|---|---|
| | | | then existed; but on the evening of the same day he remarks—<br>" 22nd *We can not find that difference but it was seen right as before.*" |
| Nov. 6—Dec. 31 | 10,59 | 7,95 | An adjustment was made on the 13th for a deviation of about 1″ to the West. |

## REDUCTIONS EMPLOYED.

The places of the known stars have been corrected for Aberration, Nutation, and Precession, from the values of *a*, *b*, *c*, *d*, &c. given in the Royal Astronomical Society's Catalogue, in conjunction with those of A, B, C, D, furnished in the Nautical Almanac; save that a correction has been made when necessary to adapt these latter values to the instant of the Star's Transit.

The table of Refractions employed, is that constructed by *Mr. Henry Atkinson*, and printed in the 2d Volume of the Astronomical Society's Memoirs, using the "*in door*" thermometer:—The remaining corrections for the Sun or Planets, have been derived either from the Nautical Almanac, or from Mr. Baily's Astronomical Tables.

In the reduction of the Moon's Place, the ratio of the Polar and Equatoreal Axes of the Earth has been taken at 299 : 300

from which we get *the angle of the vertical* = 5′ 0″
——————————Radius of the Earth = ,999825

## ERROR AND RATE OF THE TRANSIT CLOCK.

The error of the Transit Clock has been determined with reference to the Madras Results given in Vol. II; selecting those stars only which have been frequently observed—which are situated near to the Equinoctial, and which differ less than one tenth of a second from the Greenwich Catalogue.*

In general it has been my custom to divide the hours of observing into "*watches*" of three hours each, and to observe during each *watch* three of these

* The Greenwich Catalogue here alluded to, refers to that of 720 Stars for 1830, published in 1829 or 1830—there have I believe been later catalogues issued from the Greenwich Royal Observatory, but I have not been so fortunate as to obtain a copy.

stars for the determination of the Clock Error;—by this arrangement, any irregularity in the going of the Clock is rendered of little consequence, since the rate is trusted only for one and a half or two hours at most; with regard to the Sun, and the Planets Mercury and Venus,—it frequently happens from clouds or haze that no star has been observed within 6 or 8 hours of their passage; in this case—when the rate has appeared irregular, I have cancelled the observation. In the comparison of the errors of the Clock on one night, with those of another, for the rate, as well as in their employment for the determination of the places of the unknown Stars, it has always been my custom to compare the results of each observer with his own observations only; by which means, the *direct* influence of *personal equation* is avoided; from a recent examination however, I am happy to find, that this perplexing and unaccountable source of error, reaches to a very trifling amount in the observations composing the present volume.

In a former volume I mentioned having endeavored to exclude insects from the works of the clock, by making the case as nearly as practicable air tight; in this particular however I have since been compelled to relax a little, in consequence of the extremely faint beat of the clock being lost by the unavoidable noise of the observer at the circle, or by the least noise of natives or conveyances passing in the road; the result has been that on two occasions during the last two years, I have been able satisfactorily to account for the ill going of the clock by finding a spider's line attached to the pendulum; at other times —other causes apparently have operated; thus, on the 27th January 1836 the clock was cleaned, when from some cause not apparent, it continued to lose on its rate until the 8th March, when it was regulated; after this it continued to lose further upon its rate until the 1st May, when the thick state of the oil upon the escapement was the only apparent circumstance to account for the previous ill going; the oil I had applied was ordinary salad oil, but the temperature of from 95 to 105 Fahrenheit ( which is usual for several hours during the day at this time of the year) fully accounts for its having become thick.

| 1836 | Daily Rate. | Remarks. |
|---|---|---|
| | s. | |
| Jan. 3 | +1,01 | |
| 4 | 0,68 | |
| 6 | —0,09 | |
| 7 | 1,17 | |
| 8 | 1,67 | |
| 9 | 1,26 | |
| 10 | 1,23 | |
| 11 | 2,73 | |
| 13 | 4,80 | |
| 14 | 3,03 | |
| 15 | 4,27 | |
| 16 | 5,00 | |
| 17 | 5,85 | |
| 18 | 6,02 | |
| 19 | 6,70 | |
| 20 | 6,41 | |
| 21 | 6,75 | |
| 22 | 6,60 | |
| 23 | 6,88 | |
| 24 | 7,20 | |
| 25 | 8,31 | |
| 26 | 7,18 | |
| 27 | | On cleaning the Clock I found a spider's line attached to the pendulum. |
| 28 | 1,90 | |
| 29 | 2,34 | |
| 30 | 1,55 | |
| 31 | 0,65 | |
| Feb. 1 | 2,42 | |
| 2 | | Wound up the Clock. |
| 3 | 2,41 | |
| 4 | 2,41 | |
| 5 | 2,19 | |
| 6 | 3,20 | |
| 7 | 1,72 | |
| 8 | 1,10 | |
| 9 | 1,05 | |
| 10 | 0,98 | |
| 11 | 0,87 | |
| 12 | 0,76 | |
| 13 | 0,99 | |
| 14 | 1,73 | |
| 15 | 0,91 | |
| 16 | 1,42 | |
| 17 | 1,73 | |
| 18 | 2,21 | |
| 19 | 2,76 | |
| 20 | 3,20 | |
| 21 | 3,87 | |
| 22 | 3,38 | |
| 23 | 3,48 | |
| 24 | 3,64 | |

| 1836 | Daily Rate. | Remarks. |
|---|---|---|
| | s. | |
| Feb. 25 | —4,88 | |
| 26 | 3,96 | |
| 27 | 3,72 | |
| 28 | 4,71 | |
| 29 | 4,92 | |
| Mar. 1 | 5,18 | |
| 2 | 4,99 | |
| 3 | 4,81 | |
| 5 | 5,44 | |
| 6 | 5,48 | |
| 7 | 5,46 | |
| 8 | | I regulated the Clock. |
| 9 | +1,01 | |
| 10 | +1,01 | |
| 11 | +0,18 | |
| 12 | —0,31 | |
| 13 | 0,85 | |
| 14 | 3,70 | |
| 15 | 5,53 | |
| 16 | 5,61 | |
| 17 | 2,69 | |
| 18 | 2,33 | |
| 19 | 3,09 | |
| 20 | 3,16 | |
| 21 | 2,32 | |
| 22 | 2,83 | |
| 23 | 2,35 | |
| 25 | 3,48 | |
| 26 | 4,02 | |
| 27 | 4,23 | |
| 28 | 4,18 | |
| 29 | 4,38 | |
| 30 | 4,59 | |
| 31 | 4,77 | |
| April 1 | 4,72 | |
| 2 | 4,99 | |
| 3 | 4,94 | |
| 4 | 5,85 | |
| 5 | 5,36 | |
| 6 | 5,80 | |
| 7 | 5,25 | |
| 8 | 4,59 | |
| 9 | 4,85 | |
| 10 | 4,45 | |
| 11 | 4,44 | |
| 12 | 4,61 | |
| 13 | 4,88 | |
| 14 | 5,03 | |
| 15 | 5,07 | |
| 16 | 5,04 | |
| 17 | 5,10 | |

| 1836 | Daily Rate. | Remarks. |
|---|---|---|
| | s. | |
| April 18 | —5,77 | |
| 19 | 5,38 | |
| 20 | 4,77 | |
| 21 | | |
| 22 | 4,57 | |
| 23 | 4,88 | |
| 24 | 4,98 | |
| 25 | | |
| 26 | 5,05 | |
| 27 | 5,38 | |
| 28 | 5,51 | |
| 29 | 5,83 | |
| 30 | —5,04 | Oil thick—cleaned and regulated the clock. |
| May 1 | +2,51 | |
| 2 | 2,76 | |
| 3 | 2,33 | |
| 4 | 2,33 | |
| 5 | 3,13 | |
| 6 | 2,86 | |
| 8 | 2,86 | |
| 9 | 3,40 | |
| 11 | 5,75 | |
| 15 | 3,29 | Wound up the clock, put it back 3 minutes and regulated it. |
| 16 | | |
| 18 | —5,75 | |
| 19 | 4,17 | |
| 20 | 4,02 | |
| 21 | 4,27 | |
| 22 | 4,70 | |
| 23 | 4,00 | |
| 24 | 3,99 | |
| 25 | 4,29 | |
| 26 | 3,97 | |
| 28 | 4,31 | |
| 29 | 4,40 | |
| 30 | 4,33 | |
| 31 | 4,36 | |
| June 1 | 3,99 | |
| 5 | 4,07 | |
| 6 | 3,86 | |
| 7 | 4,49 | |
| 8 | 4,69 | |
| 9 | 4,46 | |
| 10 | 5,00 | |
| 11 | 5,04 | |
| 12 | 5,17 | |
| 13 | 5,38 | |
| 14 | 5,02 | |
| 15 | 5,12 | |
| 17 | 4,00 | |
| 18 | 4,70 | |

| 1836 | Daily Rate. | Remarks. |
|---|---|---|
| | s. | |
| June 19 | —4,67 | |
| 20 | 4,25 | |
| 28 | 4,95 | |
| 30 | 4,73 | |
| July 3 | 3,05 | |
| 4 | 3,84 | |
| 9 | 4,25 | |
| 10 | 3,52 | |
| 14 | 3,95 | |
| 15 | 4,70 | |
| 16 | 4,35 | |
| 17 | 5,22 | |
| 18 | 2,22 | Regulated the Clock. |
| 19 | 2,25 | |
| 22 | 2,47 | |
| 26 | 2,90 | |
| 27 | 1,63 | |
| 28 | 0,90 | |
| 30 | 0,92 | |
| Aug. 2 | 0,08 | |
| 4 | 0,03 | |
| 9 | +0,96 | Continued cloudy weather. |
| 10 | 1,72 | |
| 11 | 1,45 | |
| 14 | 1,65 | |
| 16 | 2,13 | |
| 17 | 2,75 | |
| 19 | 2,21 | |
| 21 | 2,59 | |
| 23 | 3,51 | |
| 27 | 4,88 | |
| 28 | 4,54 | |
| Sep. 6 | | Continued cloudy weather, I regulated the clock. |
| 7 | —4,26 | |
| 8 | 3,22 | |
| 9 | 3,64 | |
| 10 | 2,40 | |
| 11 | 2,54 | |
| 12 | 1,94 | |
| 13 | 1,55 | |
| 14 | 1,80 | |
| 15 | 0,59 | |
| 16 | 1,75 | |
| 20 | 2,02 | |
| 21 | 1,96 | |
| 23 | 2,78 | |
| 24 | 1,81 | |
| 25 | 2,75 | |
| 26 | 2,15 | |
| 30 | 2,00 | |
| Oct. 1 | 2,66 | |

| 1836 | Daily Rate. | Remarks. |
|---|---|---|
| | s. | |
| Oct. 2 | —3,12 | |
| 3 | 3,88 | |
| 6 | 2,53 | |
| 7 | 1,70 | |
| 8 | 1,62 | |
| 9 | 2,12 | |
| 10 | 1,69 | |
| 11 | 2,16 | |
| 12 | 2,61 | |
| 13 | 3,16 | |
| 14 | 3,33 | |
| 15 | 2,91 | |
| 16 | | |
| 17 | 3,10 | |
| 18 | 2,97 | |
| 19 | 0,61 | |
| 20 | 1,33 | |
| 21 | 1,52 | |
| 22 | 1,47 | |
| 23 | 1,70 | |
| 25 | 2,24 | |
| 26 | | |
| 27 | 2,65 | |
| 28 | 2,80 | Mostly cloudy weather. It blew a hurricane on the 31st. |
| Nov. 7 | +2,38 | |
| 8 | 3,53 | |
| 9 | 4,28 | |
| 10 | 4,20 | |
| 11 | 1,26 | |
| 12 | 1,78 | |
| 13 | 3,00 | |
| 18 | 3,20 | |
| 22 | 1,06 | |
| 23 | 1,00 | |
| 24 | 0,92 | |
| 25 | 0,52 | |
| 26 | 0,38 | |
| 27 | 0,48 | |
| 28 | 0,78 | |
| 29 | 3,00 | |
| Dec. 1 | 2,65 | |
| 2 | 4,38 | |
| 3 | 3,99 | |
| 4 | 4,75 | |
| 5 | 5,13 | Wound up the clock and applied oil to the pallets. |
| 6 | | |
| 10 | 2,85 | |
| 11 | 0,58 | |
| 12 | 0,70 | |
| 17 | | Wound up the clock. |
| 18 | —3,64 | |

| 1836 | Daily Rate. | Remarks. |
|---|---|---|
| | s. | |
| Dec. 19 | —3,10 | |
| 20 | 3,43 | |
| 21 | 3,60 | |
| 23 | 3,66 | |
| 24 | 3,28 | |
| 26 | 3,43 | |
| 31 | 2,96 | |
| 1837 | | |
| Jan. 1 | 1,72 | |
| 3 | 1,59 | |
| 4 | 1,42 | |
| 5 | | Put clock backward three minutes. |
| 6 | 1,22 | |
| 7 | 0,87 | |
| 8 | 1,37 | |
| 9 | 1,59 | |
| 10 | 1,17 | |
| 11 | 1,17 | |
| 12 | 1,82 | |
| 13 | 1,46 | |
| 15 | 1,10 | Wound up the clock. |
| 19 | 3,44 | |
| 20 | 2,00 | |
| 21 | 2,19 | |
| 22 | 1,83 | |
| 23 | 1,30 | |
| 24 | 0,94 | |
| 25 | 0,90 | |
| 26 | 1,35 | |
| 27 | 1,30 | |
| 28 | 0,62 | |
| 29 | 1,07 | |
| 30 | 0,38 | |
| 31 | 1,20 | |
| Feb. 2 | —0,31 | |
| 3 | +0,38 | |
| 4 | —0,19 | |
| 5 | +0,10 | |
| 6 | —0,07 | |
| 7 | 0,09 | |
| 8 | 1,73 | |
| 9 | 0,45 | |
| 10 | 0,57 | |
| 11 | 0,71 | |
| 12 | 0,88 | |
| 13 | —0,28 | |
| 14 | +0,26 | |
| 15 | 0,28 | |
| 16 | 0,24 | |
| 17 | 0,53 | |
| 18 | 0,38 | |

| 1837 | Daily Rate. | Remarks. |
|---|---|---|
| | s. | |
| Feb. 19 | +0,19 | |
| 20 | 1,38 | |
| 21 | +0,22 | Continued cloudy weather. |
| 26 | —3,00 | |
| 27 | 3,49 | |
| 28 | 3,74 | |
| Mar. 1 | 4,78 | |
| 2 | 5,00 | |
| 4 | 5,00 | |
| 5 | 4,18 | |
| 6 | 4,41 | |
| 7 | 4,73 | |
| 8 | 3,81 | |
| 9 | 3,96 | |
| 10 | 3,32 | |
| 11 | 4,42 | |
| 12 | 4,90 | |
| 13 | 5,35 | |
| 14 | 4,77 | |
| 15 | 4,69 | |
| 16 | 4,37 | |
| 17 | 3,95 | |
| 18 | 3,35 | |
| 19 | 4,20 | |
| 20 | 4,46 | |
| 21 | 3,53 | |
| 22 | 3,12 | |
| 23 | 4,77 | |
| 24 | 5,62 | |
| 25 | 5,16 | |
| 26 | 4,71 | |
| 27 | 3,63 | |
| 28 | 4,51 | |
| 29 | 6,44 | |
| 30 | 5,94 | |
| 31 | 6,75 | |
| April 1 | 7,30 | |
| 2 | 6,44 | I examined the clock and removed a fine thread which had been attached to the pendulum by some mischievous spider. |
| 3 | | |
| 4 | | |
| 5 | | |
| 7 | —0,60 | |
| 8 | —0,85 | |
| 9 | —1,73 | |
| 11 | +0,26 | |
| 12 | +0,67 | |
| 13 | +0,26 | |
| 14 | —2,79 | |
| 15 | 2,22 | |
| 16 | 1,25 | |
| 17 | 1,50 | |

| 1837 | Daily Rate. | Remarks. |
|---|---|---|
| | s. | |
| April 18 | —1,80 | |
| 19 | 1,76 | |
| 20 | 1,41 | |
| 21 | 1,51 | |
| 22 | 2,00 | |
| 23 | 1,97 | |
| 24 | 2,35 | |
| 25 | 2,20 | |
| 26 | 2,31 | |
| 27 | 2,25 | |
| 28 | 2,36 | |
| 29 | 3,00 | |
| 30 | 1,68 | |
| May 1 | 2,76 | |
| 2 | 2,45 | |
| 3 | 1,91 | |
| 4 | 1,69 | |
| 5 | 2,16 | |
| 9 | 2,36 | |
| 10 | 2.41 | |
| 11 | 2,90 | |
| 12 | 2,47 | |
| 15 | 2,75 | |
| 16 | 2,68 | |
| 17 | 2,60 | |
| 18 | 2,20 | |
| 24 | 3,04 | |
| 28 | 3,07 | |
| 30 | 3,98 | |
| 31 | 3,37 | |
| June 6 | 2,49 | |
| 7 | 1,98 | |
| 8 | 2,18 | |
| 9 | 2,80 | |
| 10 | 2,40 | |
| 11 | 2,82 | |
| 13 | 3,28 | Mostly cloudy weather, peculiar to the S. W. Monsoon. |
| 14 | 3,15 | |
| 16 | 3,44 | |
| 20 | 2,95 | |
| 26 | 3,45 | |
| 29 | 3,80 | |
| 30 | 3,20 | |
| July 3 | 2,65 | |
| 8 | 2,50 | |
| 9 | 2,46 | |
| 10 | 2,97 | |
| 11 | 2,73 | |
| 13 | 3,29 | |
| 14 | 3,55 | |
| 15 | 4,36 | |

| 1837 | Daily Rate. | Remarks. |
|---|---|---|
| | s. | |
| July 16 | —4,41 | |
| 19 | 4,59 | |
| 20 | 4,65 | Continued cloudy weather. |
| Aug. 2 | 1,50 | |
| 8 | 1,56 | |
| 9 | 1,63 | |
| 10 | 1,16 | |
| 11 | 1,54 | |
| 12 | 1,50 | |
| 13 | 1,65 | Continued cloudy weather. |
| 20 | | |
| 21 | 2,31 | |
| 22 | 1,33 | |
| 23 | 0,58 | |
| 27 | 2,34 | |
| 28 | 1,43 | |
| 29 | 0,65 | |
| 30 | 0,44 | |
| Sep. 14 | 2,75 | |
| 15 | 2,60 | |
| 16 | 2,09 | |
| 17 | 1,77 | |
| 18 | 1,40 | |
| 19 | 1,78 | |
| 20 | 1,76 | |
| 21 | 1,78 | |
| 22 | 1,71 | |
| 23 | 1,88 | |
| 24 | 1,38 | |
| 25 | 1,87 | |
| 26 | 1,01 | |
| 27 | 1,51 | |
| 28 | 0,96 | |
| Oct. 10 | 1,22 | |

| 1837 | Daily Rate. | Remarks. |
|---|---|---|
| | s. | |
| Oct. 12 | —1,04 | |
| 13 | 0,86 | |
| 14 | 0,56 | |
| 15 | 0,08 | |
| 16 | 1,29 | The seconds hand tript in winding. |
| 17 | | |
| 23 | 1,54 | |
| 24 | 1,61 | |
| 25 | 1,60 | Continued cloudy weather. |
| Nov. 6 | 1,41 | |
| 7 | 1,51 | |
| 8 | | |
| 12 | 1,03 | The seconds hand went backwards in winding. |
| 17 | | |
| 21 | 1,71 | |
| 24 | 3,40 | |
| 26 | 3,85 | |
| 27 | 2,90 | |
| 28 | 2,27 | |
| 29 | 2,56 | |
| Dec. 15 | 2,09 | |
| 16 | 2,39 | |
| 17 | 2,20 | |
| 18 | 2,54 | |
| 19 | 2,79 | |
| 20 | 2,57 | |
| 21 | 2,30 | |
| 24 | 4,08 | |
| 25 | 2,85 | |
| 26 | 2,57 | |
| 27 | 2,91 | |
| 28 | 2,55 | |
| 29 | 3,19 | |

## METEOROLOGICAL INSTRUMENTS EMPLOYED.

The Barometer employed at the commencement of 1836 and up to the end of October of that year, was a Standard (No. 6.) by Gilbert which—as has been explained in Vol. III., I had been allowed to select from several, which were supplied to the Surveyor General's Department at Calcutta;—the diameter of the tube was 0,22 inches and the zero correction—0,006 inches; rendering necessary to the registered observations, the correction for temperature +0,051 — 0,006; or, where in the table of refractions allowance is made for

the temperature of the quicksilver,—the correction +,045 is simply necessary.——The thermometers employed during this period were, a Standard by Troughton (which when in England I had carefully compared with the Royal Society's Standard) and one by Jones, which agreed to identity with it; the former being employed outside and the other inside the building. During the Storm on the 31st October neither of these Instruments escaped destruction, so that I had now no remedy left, but that of filling a tube;—accordingly I availed myself of two unbroken glass tubes and cisterns, and the brass scales of the barometers hitherto employed, and set to work as follows; the quicksilver was purified by repeated washings in diluted nitric acid, and was then heated to a temperature little short of boiling water to drive off moisture: the tube was now heated—the hot mercury gradually poured in, and a small air bubble sent up in the usual way to collect stray bubbles:—after filling two tubes in this way with as much care as it was possible to bestow—finding that a difference of less than one hundredth of an inch existed between them, I concluded that with the exception of finding the specific gravity of the mercury; all that was necessary to ensure a good barometer, and accurate results, had been done; accordingly on the 11th December 1836 I commenced to employ one of these barometers, making an allowance of +0,051 for capilliary action (corresponding to abore of 0,22 inches). In the interim between 1st November and this date, a barometer by *Tagliabue* was employed, whose correction *then* appeared to be 0,002 inches subtractive.

The Storm had passed away, and its effects had been forgotten in the busy mornings and evenings of the fine months of January and February, and, with the exception of an occasional glance at the two barometers and a feeling of pleasure at their coincidence—no further thought of them was given until the 10th of May: On this day to oblige a friend I had undertaken, after purifying the mercury in his barometer,—to *boil it in the tube;* (a precaution I had feared to undertake with my own, having no spare tubes): On comparing the barometer thus constructed with the two "Standards", to my utter astonishment, a correction 0,125 inches additive to both of mine, appeared necessary; —at first I felt convinced that the error lay with the newly constructed barometer, but *after boiling the mercury in the tubes* of the two hitherto *supposed* Standards, they both exhibited increased readings to the above amount—Since this time I have frequently filled barometer tubes, and have found a coincidence between them and the *now* considered "Standards" which leaves me confident of not being above 0,01 inches in error. To ascertain at what date this correc-

tion ought to commence, or if its progress had been gradual, I compared the meteorological observations of November 1836 with those of former years* when it was at once evident that the correction was due to all observations since the storm. Hence, in the observations of November 1836, and up to 10th May 1837 the correction +,125 is necessary for zero error, and +,051 for capillary action, and for subsequent observations, the latter correction only should be employed.

The Thermometers employed since the Storm, are two by Bate, of an ordinary description, which at my request had been sent out to this country for rough purposes by the Honorable Court of Directors: I took the precaution on receiving them (which was a few days before the Storm) to note their difference (at 75°) from the Standard hitherto in use, when neither of them differed more than two tenths of a degree: with this testimony of their accuracy, there need be no fear of their errors at any point in the scale being of importance.

## OF THE MURAL CIRCLE.

This Instrument having been minutely described in Vol. I., it is only necessary here to state, that the focal length of the telescope is 49 inches, with a clear asserture of $3\frac{3}{4}$ inches; and that the diameter of the circle is four feet:—The divisions are beautifully cut on a slip of gold (let in upon the circumference of the wheel) to every 5 minutes, and the sub-division of these is effected by four Microscopes situated at 90° apart, viz. two horizontally and two vertically —the readings of each microscope are registered to a tenth of a second, but the error of making a single bisection at either microscope, arising from *false light* principally, may in some cases amount to 1″,5 but *generally*, I think that the half of this may be stated to be the probable mean error of reading of each microscope.

* The regularity of the barometer in inter-tripical climates will permit this mode of proceedure, whereas in a high Latitude; *one*, or even *two* tenths of an inch might be lost sight of in the varied amount of atmospheric pressure which is experienced.

The eye piece is supplied with five vertical and one horizontal fixed wires, and one horizontal moveable wire;—the power employed for astronomical observations is about 120, and for the observation of the collimation, about 70—The stability of the Instrument is equal to any thing that could be desired, a fact, which is well attested, from the circumstance that during the last 4 years I have not had occasion to adjust it either for level or azimuth—and a late examination of the axis, enables me to speak with confidence of its being now after 7 years use, in as good a condition as when it was first erected.

## OBSERVATIONS MADE WITH THE MURAL CIRCLE.

In the years 1836 and 1837 the Mural Circle has contiuued to be employed as heretofore in the measurement of North Polar Distance—taking the mean of the four microscopes at each observation. In the Computation of the Index Error, I have employed the *Madras Catalogue* published in Vol. II., giving always a preference to those stars which differed the least from the Greenwich Catalogue, and restricting the limit of observations for this purpose to within 20° of the zenith; by this arrangement, the anomaly which has been shewn to exist in the Cambridge Mural Circle (depending probably upon flexure of the horizontal wire)—would here necessarily have but a very trifling effect upon the *Index Error;* to discover its amount when the telescope was directed to the horizon,—in the year 1835 I availed myself of a plan which has already been described in Vol. III., thus—" I directed the Circle Telescope to the North horizon and opposite to it, (in the window sill of the observatory) placed a 46-inch telescope by Dolland, with its object glass presented to that of the circle telescope, and its whole length disposed in a right line with it;—turning the circle through 180° to the South horizon, I in a similar way disposed another telescope (Dolland's 5 feet):—into the focus of the 46 telescope I had fitted a pair of cross lines, and the 5 feet telescope was supplied with a double wire micrometer—matters thus arranged, I took out the circle eye piece and slide, and unscrewed the object glass, leaving a clear aperture of two inches through the circle telescope, by which means, with the assistance of the micrometer wire,

I was unable to adjust the line of collimation of the 5 feet telescope to parallelism with that of the 46-inch placed in the opposite window, this done I replaced the eye piece, screwed in the object glass, and immediately measured the angular distance between the telescopes; to guard against movement of the telescopes, the observation was not considered complete, till the object glass of the circle telescope had again been removed, and the parallelism of the two other telescopes again examined; but the telescopes having been very securely fixed, no movement whatever was detected during the time of making the observations (about three hours)".

The result of several measurements in this way shewed that the angular distance between the two marks was,—(reckoning from the South horizon in the direction through the *Nadir**) = 180° 0′ 0″,38 exhibiting a negative flexure to the amount 0″,19. Whether this remained constant or no during the early part of 1836, I have now no means of ascertaining; but on the 27th August, some rain having leaked through the roof, broken the wires, and wetted the inside of the object glass; I availed myself of the necessity of taking out the object glass to repeat the above experiment. Having put in a new set of silk lines;—from the mean of 5 separate measurements; the angle between the South Telescope through the Nadir up to the North Telescope, was 179° 59′ 58″,88: exhibiting a positive flexure of 0″,56 when directed to the horizon:—Since this period no further observations to this end have been made, which has arisen from a desire of not interrupting the observations, and from a fear of accident in taking out the object glass;—enough however has been done, to shew, that the reduction of the observations by using a common Index Error, entails a very trifling amount of error upon the Madras Results—In addition to the Index Error computed from the observed places of known stars, the observations with the Reflecting Collimator have continued to be made three or four times every day; viz. at 0, 6, 12 and 18 hours; by this means a severe check has always been kept upon the Index Error by the stars, and a very accurate knowledge of the difference between the one method and the other determined, of which I have now some idea of availing myself, by giving up the observation of known stars altogether.

* Erroneously stated *per zen* in Vol. III.

| Date. | No. of observations. | Index Error by Stars. | Remarks. | No. of observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1836 | | ′ ″ | | | ′ ″ | |
| Jan. 1 | 6 | —2 11,26 | | | | |
| 2 | | | | 5 | —2 9,51 | |
| 3 | 7 | 10,13 | | 5 | 9,77 | —0,36 |
| 4 | 2 | 9,22 | | 5 | 10,42 | +1,20 |
| 5 | | | I took out the axis—cleaned | 5 | 9,58 | |
| 6 | 10 | 17,26 | it, and applied fresh oil. | 2 | 17,09 | —0,26 |
| 7 | | | | 2 | 16,91 | |
| 8 | 6 | 14,31 | | 5 | 16,83 | +2,52 |
| 9 | 9 | 12,89 | | 5 | 15,39 | |
| 10 | | | | 3 | 12,58 | —0,31 |
| 11 | 6 | 12,48 | Mean = 2′ 12″,78 | 3 | 11,96 | —0,52 |
| 12 | | | | | | |
| 13 | 8 | 12,83 | | 4 | 11,85 | —0,98 |
| 14 | 7 | 12,91 | | 4 | 12,69 | —0,22 |
| 15 | 9 | 11,56 | | 4 | 11,60 | +0,13 |
| 16 | | | | 4 | 11,78 | |
| 17 | 10 | 10,55 | | 4 | 11,60 | +1,20 |
| 18 | | | | 4 | 11,90 | |
| 19 | 7 | 10,01 | | 4 | 11,31 | +1,30 |
| 20 | 7 | 8,91 | | 3 | 10,68 | +1,77 |
| 21 | 6 | 9,02 | | 2 | 8,65 | —0,27 |
| 22 | | | | 3 | 8,85 | |
| 23 | 10 | 9,19 | | 4 | 9,05 | +0.08 |
| 24 | | | Mean = 2′ 9″,24 | 3 | 9,50 | |
| 25 | 9 | 9,28 | | 5 | 9,23 | —0,05 |
| 26 | 5 | 9,34 | | 4 | 9,21 | —0,13 |
| 27 | 8 | 9,68 | | 4 | 9,68 | 0,00 |
| 28 | 7 | 10,11 | | 4 | 9,91 | —0,20 |
| 29 | 7 | 10,16 | | 3 | 10,20 | +0,04 |
| 30 | 7 | 9,88 | | 3 | 10,56 | +0,68 |
| 31 | 5 | 10,17 | | 5 | 9,93 | —0,24 |
| Feb. 1 | 11 | 9,54 | | 3 | 10,75 | +1,21 |
| 2 | 8 | 10,29 | | 4 | 9,46 | —0,83 |
| 3 | 7 | 9,97 | Mean = 2′ 10″,01 | 4 | 10,62 | +0,65 |
| 4 | 6 | 9,91 | | 4 | 8,03 | —1,88 |
| 5 | 7 | 9,98 | | 4 | 9,09 | —0,89 |
| 6 | 4 | 10,42 | | 2 | 10,45 | +0,03 |
| 7 | 9 | 9,85 | | 4 | 10,45 | +0,60 |
| 8 | 5 | 10,24 | | 4 | 9,40 | —0,84 |
| 9 | 5 | 9,59 | | 5 | 9,01 | —0,58 |
| 10 | 7 | 9,28 | | 4 | 9,00 | —0,28 |
| 11 | 4 | 8,54 | | 4 | 8,32 | —0,22 |
| 12 | 5 | 8,59 | Mean = 2′ 8″,55 | 5 | 8,79 | +0,20 |
| 13 | 5 | 7,98 | | 5 | 8,11 | +0,13 |
| 14 | 6 | 8,54 | | 5 | 7,50 | —1,04 |
| 15 | 5 | 8,39 | | 4 | 8,12 | —0,27 |
| 16 | 8 | 5,36 | | 4 | 4,40 | —0,96 |
| 17 | 5 | 5,66 | | 4 | 4,81 | —0,85 |
| 18 | 7 | 6,07 | Mean = 2′ 5″,75 | 5 | 4,38 | —1,69 |
| 19 | 9 | 5,95 | | 4 | 560 | —0,35 |
| 20 | | | | 3 | 6,60 | |

| Date. | No. of observations. | Index Error by Stars. | Remarks. | No. of observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1836 | | ′ ″ | | | ′ ″ | |
| Feb. 21 | 6 | —2 6,43 | | 5 | —2 6,00 | —0,43 |
| 22 | 6 | 6,97 | | 5 | 5,87 | —1,10 |
| 23 | 7 | 7,62 | | 4 | 5,98 | —1,69 |
| 24 | | | | 4 | 5,89 | |
| 25 | 6 | 7,78 | | 5 | 5,06 | —2,72 |
| 26 | 7 | 6,95 | | 5 | 5,96 | —0,99 |
| 27 | 9 | 6,29 | | 5 | 6,27 | —0,02 |
| 28 | | | | 5 | 5,47 | |
| 29 | 5 | 6,77 | | 5 | 5,84 | —0,93 |
| March 1 | 7 | 7,17 | | 5 | 6,12 | —0,86 |
| 2 | | | | 5 | 6,50 | |
| 3 | 5 | 7,59 | | 5 | 5,38 | —1,79 |
| 4 | | | | 4 | 6,22 | |
| 5 | 5 | 6,62 | | 4 | 6,66 | +0,04 |
| 6 | 5 | 7,33 | | 5 | 5,56 | —1,77 |
| 7 | 5 | 7,12 | | 3 | 5,12 | —2,02 |
| 8 | | | | 4 | 5,08 | |
| 9 | 9 | 7,11 | | 2 | 4,65 | —2,17 |
| 10 | | | | 5 | 5,23 | |
| 11 | 6 | 7,88 | | 3 | 4,24 | —3,64 |
| 12 | 6 | 6,89 | | 5 | 5,00 | —1,89 |
| 13 | 9 | 7,06 | | 4 | 5,10 | —1,99 |
| 14 | | | | 4 | 5,05 | |
| 15 | 9 | 6,72 | | 4 | 5,50 | —0,96 |
| 16 | | | | 4 | 6,02 | |
| 17 | 7 | 6,96 | | 4 | 4,72 | —2,24 |
| 18 | 7 | 6,68 | | 3 | 4,73 | —1,95 |
| 19 | 6 | 7,02 | | 4 | 5,04 | —1,98 |
| 20 | 6 | 6,71 | | 5 | 4,75 | —1,96 |
| 21 | 6 | 6,73 | | 4 | 4,76 | —1,97 |
| | | | Mean = 2′ 7″,04 | | | |
| 22 | 5 | 5,97 | | 5 | 4,51 | —1,46 |
| 23 | 5 | 6,27 | | 3 | 4,32 | —1,95 |
| 24 | | | | 3 | 3,37 | |
| 25 | 6 | 5,73 | | 3 | 4,66 | —1,07 |
| 26 | 6 | 6,16 | | 5 | 4,82 | —1,34 |
| 27 | 6 | 6,00 | | 3 | 4,33 | —1,67 |
| 28 | 5 | 6,98 | | 4 | 5,03 | —1,95 |
| 29 | 5 | 5,58 | | 2 | 3,92 | —1,66 |
| 30 | 5 | 6,24 | | 5 | 5,71 | —0,53 |
| 31 | 7 | 6,50 | | 2 | 5,08 | —1,42 |
| April 1 | 7 | 6,19 | | 4 | 5,54 | —0,65 |
| 2 | 6 | 5,71 | | 5 | 6,39 | +0,68 |
| 3 | 7 | 6,65 | | 3 | 6,74 | +0,09 |
| 4 | | | | 4 | 5,71 | |
| 5 | 7 | 5,62 | | 5 | 5,94 | +0,32 |
| 6 | 6 | 6,35 | | 4 | 4 72 | —2,05 |
| 7 | | | | 2 | 3,89 | |
| 8 | 5 | 6,44 | | 4 | 4,71 | —1,73 |
| 9 | | | | 4 | 3,85 | |
| 10 | 6 | 6,02 | | 4 | 3,77 | —2,25 |

| Date. | No. of observations. | Index Error by Stars. | Remarks. | No. of observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1836 | | ′ ″ | | | ″ ′ | |
| April 11 | 10 | —2 6,04 | | 4 | —2 4,44 | —1,81 |
| 12 | | | | 4 | 4,02 | |
| 13 | 5 | 5,18 | | 3 | 3,83 | —1,35 |
| | | | Mean = 2′ 6″,09 | | | |
| 14 | 7 | 1,69 | | 5 | 2,16 | +0,47 |
| 15 | 5 | 1,82 | | 5 | 0,72 | —1,10 |
| 16 | 7 | 1,76 | | 4 | 0,23 | —1,53 |
| 17 | 8 | 1,85 | | 5 | 1,79 | —0,06 |
| 18 | | | | 4 | 1 59,36 | |
| 19 | 8 | 2,76 | | 5 | 1 59,86 | —2,85 |
| 20 | | | | 3 | 2 0,50 | |
| 21 | | | | 2 | 2 2,09 | |
| 22 | 6 | 2,13 | | 4 | 0,33 | |
| 23 | | | | 5 | 0,12 | —2,01 |
| 24 | 5 | 1,51 | | 5 | 0,50 | —1,01 |
| 25 | 5 | 1,89 | | 3 | 0,37 | —1,76 |
| 26 | | | | 4 | 1 59,90 | |
| 27 | 6 | 1,39 | | 3 | 1 59,55 | —1,53 |
| 28 | | | | 4 | 2 0,17 | |
| 29 | 5 | 0,58 | | 5 | 0,34 | —0,21 |
| 30 | | | | 5 | 0,40 | |
| May 1 | | | | 4 | 0,21 | |
| 2 | 5 | 1,50 | | 3 | 1 59,73 | —1,77 |
| | | | Mean = 2′ 1″,72 | | | |
| 3 | | | | 3 | 2 0,22 | |
| 4 | | | | 4 | 2 0,44 | |
| 5 | 10 | 0,88 | | 4 | 1 58,87 | —1,45 |
| 6 | | | | 3 | 1 58,91 | |
| 7 | | | | 4 | 1 59,60 | |
| 8 | | | | 5 | 2 0,38 | |
| 9 | 9 | 2,27 | | 5 | 0,42 | —1,64 |
| 10 | | | | 4 | 1,60 | |
| 11 | | | | 5 | 0,12 | |
| 12 | | | | 3 | 0,02 | |
| 13 | | | | 3 | 0,27 | |
| 14 | | | | 2 | 0,96 | |
| 15 | | | | 4 | 1,28 | |
| 16 | 9 | 2,21 | | 3 | 2 0,20 | —1,73 |
| 17 | | | | 4 | 1 59,97 | |
| 18 | 8 | 1,06 | | 4 | 2 0,25 | —0,83 |
| 19 | | | | 5 | 2 0,21 | |
| 20 | 7 | 1,75 | | 4 | 2 0,08 | —1,87 |
| 21 | | | | 2 | 1 59,68 | |
| 22 | | | | 4 | 2 0,53 | |
| 23 | 8 | 1,86 | | 4 | 0,13 | —1,52 |
| 24 | | | | 3 | 0,36 | |
| 25 | | | | 4 | 0,37 | |
| 26 | | | | 3 | 1,14 | |
| 27 | 7 | 0,90 | | 2 | 0,15 | —0,49 |
| 28 | | | | 3 | 0,16 | |
| 29 | | | | 3 | 0,21 | |

| Date. | No. of observations. | Index Error by Stars. | Remarks. | No. of observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1836 | | ′ ″ | | | ′ ″ | |
| May 30 | | | | 2 | —2 1,13 | |
| 31 | | | | 3 | 1 58,18 | |
| June 1 | 6 | —2 0,80 | | 2 | 1 58,98 | —1,49 |
| 2 | | | | 3 | 1 57,71 | |
| 3 | | | | 3 | 1 59,56 | |
| 4 | | | | 3 | 2 0,30 | |
| 5 | 7 | 0,25 | | 3 | 0,16 | —0,16 |
| 6 | | | | 3 | 0,03 | |
| 7 | | | | 2 | 1 59,99 | |
| 8 | 6 | 2 0,20 | | 4 | 2 0,16 | —0,04 |
| 9 | 6 | 1 59,72 | | 3 | 1 59,94 | +0,22 |
| 10 | 6 | 2 0,74 | | 2 | 2 1,18 | +0,44 |
| 11 | 6 | 2 0,15 | | 3 | 1 59,13 | —1,02 |
| 12 | 7 | 1 59,25 | | 3 | 58,72 | —0,53 |
| 13 | 7 | 1 58,52 | | 3 | 58,63 | +0,11 |
| 14 | 8 | 59,24 | | 3 | 58,17 | —2,01 |
| 15 | | | | 3 | 56,30 | |
| 16 | 9 | 59,19 | | 3 | 57,64 | —1,73 |
| 17 | | | | 4 | 57,28 | |
| 18 | 7 | 59,20 | | 3 | 57,87 | —0,94 |
| 19 | | | | 4 | 58,65 | |
| 20 | | | | 4 | 57,49 | |
| 21 | | | | 3 | 57,07 | |
| 22 | | | | 3 | 57,44 | |
| 23 | | | | 2 | 58,81 | |
| 24 | 8 | 1 58,94 | | 2 | 58,36 | —1,01 |
| 25 | | | | 3 | 58,07 | |
| 26 | | | | 3 | 58,12 | |
| 27 | | | | 2 | 58,23 | |
| 28 | | | | 3 | 57,76 | |
| 29 | | | | 3 | 58,18 | |
| 30 | 7 | 59,70 | | 4 | 58,87 | —0,61 |
| July 1 | | | | 4 | 59,43 | |
| 2 | | | | 3 | 59,89 | |
| 3 | | | | | | |
| 4 | | | | 2 | 60,37 | |
| 5 | | | | 2 | 59,50 | |
| 6 | 8 | 58,82 | | 1 | 59,30 | +0,82 |
| 7 | | | | 2 | 59,74 | |
| 8 | | | | 2 | 59,86 | |
| 9 | | | | 2 | 59,04 | |
| 10 | | | | 3 | 59,26 | |
| 11 | | | | 3 | 60,29 | |
| 12 | 8 | 59,58 | | 3 | 59,90 | +0,12 |
| 13 | | | | 3 | 59,13 | |
| 14 | | | | 4 | 59,93 | |
| 15 | 10 | 59,25 | | 5 | 60,19 | +0,17 |
| 16 | | | | 3 | 58,64 | |
| 17 | 6 | 1 59,33 | | 3 | 57,87 | —1,46 |
| 18 | 7 | 2 0,01 | | 4 | 58,79 | —1,22 |
| 19 | 6 | 1 59,64 | | 2 | 59,51 | —0,13 |

| Date. | No. of Observations. | Index Error by Stars. | Remarks. | No. of Observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1836 | | ′ ″ | | | ′ ″ | |
| July 20 | | | | 4 | —1 60.61 | |
| 21 | | | | 2 | 60,64 | |
| 22 | | | | 2 | 60,23 | |
| 23 | | | | 3 | 58,67 | |
| 24 | 7 | —2 0,30 | | 2 | 59,82 | —0,55 |
| 25 | | | | 2 | 59,27 | |
| 26 | | | | 4 | 60,78 | |
| 27 | | | | 2 | 59,06 | |
| 28 | 7 | 1 58,84 | | 4 | 59,64 | +0,51 |
| 29 | | | | 1 | 59,15 | |
| 30 | | | | 3 | 59,90 | |
| 31 | | | | 3 | 59,11 | |
| Aug. 1 | | | | 2 | 59,26 | |
| 2 | | | | 3 | 60,09 | |
| 3 | | | | 2 | 59,39 | |
| 4 | | | | 3 | 59,69 | |
| 5 | | | | 2 | 59,95 | |
| 6 | | | | 1 | 59,72 | |
| 7 | | | | 3 | 59,47 | |
| 8 | | | | 3 | 59,79 | |
| 9 | | | | 3 | 60,08 | |
| 10 | | | | 3 | 59,45 | |
| 11 | | | | | | |
| 12 | | | | 2 | 59,26 | |
| 13 | | | | 2 | 59,39 | |
| 14 | 8 | 58,36 | | 2 | 58,70 | +0,36 |
| 15 | | | | 3 | 58,61 | |
| 16 | | | | 3 | 56,89 | |
| 17 | | | | 1 | 57,33 | |
| 18 | | | | 3 | 58,83 | |
| 19 | | | | 2 | 58,22 | |
| 20 | | | | 2 | 58,35 | |
| 21 | 9 | 1 58,61 | | 2 | 57,39 | —0,16 |
| 22 | | | | 2 | 56,87 | |
| 23 | | | | 4 | 57,19 | |
| 24 | | | | 2 | 56,92 | |
| 25 | | | | 2 | 57,13 | |
| 26 | | | | 3 | 57,75 | |
| 27 | | | | 1 | 57,75 | |
| | | | Continued cloudy weather peculiar to the S. W. Monsoon. | | | |
| | | | A few drops of rain had leaked through the roof and broken the wires;—I put in a new set. | | | |
| Sep. 8 | 5 | —0 45,15 | | 3 | —0 46,90 | +1,99 |
| 9 | | | | 4 | 47,38 | |
| 10 | 5 | 46,23 | | 5 | 45,73 | —0,50 |
| 11 | 7 | 45,98 | | 4 | 44,15 | —1,83 |
| 12 | 6 | 44,91 | | 5 | 44,61 | —0,30 |
| 13 | 5 | 46,16 | | 4 | 46,81 | +0,65 |
| 14 | 6 | 47,26 | | 4 | 45,95 | —1,31 |

| Date. | No. of observations. | Index Error by Stars. | Remarks. | No. of observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1836 | | ′ ″ | | | ′ ″ | |
| Sep. 15 | 5 | —0 46,11 | | 3 | —0 47,49 | +1,38 |
| 16 | 5 | 45,20 | | 4 | 46,65 | +1,45 |
| 17 | | | | 3 | 45,66 | |
| 18 | | | | 4 | 46,79 | |
| 19 | 5 | 46,51 | | 3 | 47,18 | +0,67 |
| 20 | 4 | 45,85 | | 3 | 44,62 | —0,97 |
| 21 | | | | 3 | 45,13 | |
| 22 | 5 | 46,12 | | 3 | 46,32 | +0,20 |
| 23 | 5 | 46,27 | | 5 | 46,15 | —0,12 |
| 24 | | | | 3 | 46,53 | |
| 25 | 7 | 45,53 | | 3 | 46,61 | +1,25 |
| 26 | | | | 3 | 46,95 | |
| 27 | | | | 3 | 45,23 | |
| 28 | | | | 4 | 46,48 | |
| 29 | 6 | 47,64 | | 3 | 46,84 | —0,74 |
| 30 | | | | 5 | 46,96 | |
| Oct. 1 | 5 | 47,07 | | 5 | 48,00 | +0,93 |
| 2 | 5 | 47,64 | | 4 | 47,27 | —0,37 |
| 3 | 5 | 46,22 | | 4 | 46,09 | —0,13 |
| 4 | | | | 3 | 47,15 | |
| 5 | | | | 3 | 45,71 | |
| 6 | 5 | 46,68 | | 4 | 46,90 | +0,22 |
| 7 | 6 | 46,49 | | 4 | 46,92 | +0,43 |
| 8 | 6 | 45,98 | | 5 | 46,85 | +0,87 |
| 9 | 6 | 45,83 | | 4 | 46,63 | +0,80 |
| 10 | 6 | 45,72 | | 5 | 47,16 | +1,44 |
| 11 | 5 | 45,94 | | 4 | 47,32 | +1,38 |
| 12 | 6 | 45,96 | | 4 | 45,74 | —0,22 |
| 13 | 6 | 45,41 | | 5 | 46,42 | +1,01 |
| 14 | 5 | 46,07 | | 5 | 45,06 | —1,01 |
| 15 | 5 | 47,27 | | 4 | 46,42 | —0,85 |
| 16 | 5 | 47,81 | | 3 | 45,93 | —1,88 |
| 17 | 6 | 47,35 | | 4 | 45,50 | —1,85 |
| 18 | 6 | 47,25 | | 4 | 45,65 | —1 60 |
| 19 | 5 | 46,86 | | 4 | 44,88 | —1,98 |
| 20 | 4 | 47,19 | | 2 | 45,92 | —1,27 |
| 21 | 5 | 46,30 | | 4 | 46,23 | —0,07 |
| 22 | 6 | 46,47 | | 5 | 45,32 | —1,15 |
| 23 | 5 | 46,15 | | 3 | 45,62 | —1,00 |
| 24 | | | | 3 | 45,40 | |
| 25 | | | | 4 | 44,44 | |
| 26 | | | | 2 | 44,01 | |
| 27 | 5 | 45,81 | | 4 | 43,72 | —1,48 |
| 28 | | | | 4 | 44,94 | |
| 29 | | | | 2 | 43,97 | |
| 30 | | | The violence of the wind, prevented observation. | | | |
| — 31 | | | | | | |
| Nov. — 1 | 5 | 44,76 | | 3 | 42,74 | —2,02 |
| — 2 | 5 | 44,36 | | 2 | 43,83 | —0,51 |
| — 3 | | | | 2 | 43,86 | |
| — 4 | 4 | 43,02 | | 3 | 44,05 | +1,03 |

| Date. | No. of observations. | Index Error by Stars. | Remarks. | No. of observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1836 | | ′ ″ | | | ′ ″ | |
| Nov. 5 | 5 | —0 43,46 | | 3 | —0 43,52 | +0,06 |
| 6 | 6 | 44,58 | | 4 | 44,03 | —0,55 |
| 7 | 6 | 44,70 | | 5 | 43,99 | —0,71 |
| 8 | 6 | 43,25 | | 3 | 42,98 | —0,27 |
| 9 | 5 | 44,64 | | 4 | 42,73 | —1,91 |
| 10 | 7 | 43,96 | | 5 | 43,89 | —0,07 |
| 11 | 5 | 43,86 | | 5 | 44,27 | +0,41 |
| 12 | 6 | 44,21 | | 4 | 44,56 | +0,35 |
| 13 | | | | 4 | 43,96 | |
| 14 | | | | 2 | 43,83 | |
| 15 | | | | 2 | 42,10 | |
| 16 | | | | 3 | 43,61 | |
| 17 | 5 | 43,67 | | 4 | 43,57 | —0,10 |
| 18 | | | | 2 | 44,03 | |
| 19 | | | | 2 | 45,28 | |
| 23 | 5 | 40,38 | | 3 | 39,49 | —0,89 |
| 24 | 7 | 41,85 | | 2 | 39,76 | —1,12 |
| 25 | | | | 4 | 41,70 | |
| 26 | 6 | 42,56 | | 4 | 42,40 | —0,16 |
| 27 | 5 | 43,35 | | 4 | 42,46 | —0,89 |
| 28 | 6 | 42,41 | | 4 | 40,90 | —1,51 |
| 29 | | | | 2 | 41,57 | |
| 30 | | | | 3 | 41,82 | |
| Dec. 1 | 6 | 41,71 | | 5 | 40,72 | —0,99 |
| 2 | 6 | 42,00 | | 5 | 41,53 | —0,47 |
| 3 | 6 | 41,68 | | 5 | 39,55 | —2,13 |
| 4 | 4 | 41,65 | | 2 | 39,96 | —1,69 |
| 5 | 7 | 43,84 | | 5 | 39,92 | —3,92 |
| 6 | 6 | 43,47 | | 3 | 40,32 | —3,15 |
| 7 | | | | 2 | 41,27 | |
| 8 | 6 | 42,04 | | 2 | 40,93 | —0,65 |
| 9 | | | | 3 | 41,41 | |
| 10 | | | | 5 | 41,96 | |
| 11 | 7 | 42,35 | | 5 | 42,38 | +0,03 |
| 12 | 6 | 42,88 | | 4 | 42,38 | —0,50 |
| 13 | | | | 3 | 42,77 | |
| 14 | | | | 3 | 42,07 | |
| 15 | 9 | 42,55 | | 3 | 41,46 | —0,20 |
| 16 | | | | 2 | 42,66 | |
| 17 | | | | 5 | 43,20 | |
| 18 | 6 | 43,56 | | 2 | 42,33 | —1,23 |
| 19 | 9 | 43,21 | | 2 | 42,93 | —0,22 |
| 20 | | | | 4 | 43,05 | |
| 21 | 6 | 42,95 | | 4 | 42,82 | —0,18 |
| 22 | | | | 3 | 42,71 | |
| 23 | 4 | 42,24 | | 4 | 42,50 | +0,26 |
| 24 | 5 | 42,55 | | 4 | 42,72 | +0,17 |
| 25 | | | | 2 | 43,21 | |

| Date. | No. of observations. | Index Error by Stars. | Remarks. | No. of observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1836 | | ′ ″ | | | ′ ″ | |
| Dec. 26 | | | | 5 | —0 42,72 | |
| 27 | | | | 2 | 42,37 | |
| 28 | 9 | —0 42,87 | | 3 | 41,91 | —0,43 |
| 29 | | | | 3 | 42,94 | |
| 30 | | | | 2 | 42,80 | |
| 31 | | | | 5 | 41,93 | |
| 1837 | | | | | | |
| Jan. 1 | | | | 1 | 42,15 | |
| 2 | 5 | 42,80 | | 5 | 42,20 | —0,60 |
| 3 | 8 | 44,01 | | 4 | 42,55 | —1,61 |
| 4 | | | | 5 | 42,25 | |
| 5 | 5 | 44,22 | | 5 | 42,28 | —1,94 |
| 6 | 5 | 44,00 | | 4 | 43,27 | —0,73 |
| 7 | 5 | 44,28 | | 5 | 43,81 | —0,47 |
| 8 | 6 | 43,89 | | 5 | 43,47 | —0,42 |
| 9 | 8 | 44,44 | | 5 | 42,97 | —1,47 |
| 10 | 6 | 43,26 | | 3 | 42,49 | —0,77 |
| 11 | 6 | 42,80 | | 5 | 42,77 | —0,03 |
| 12 | 7 | 43,46 | | 4 | 41,75 | —1,71 |
| 13 | | | | 2 | 42,95 | |
| 14 | 8 | 43,36 | | 2 | 41,88 | —1,60 |
| 15 | | | | 2 | 41,65 | |
| 16 | | | | 3 | 40,57 | |
| 17 | 6 | 44,07 | | 3 | 40,37 | —3,70 |
| 18 | 5 | 43,57 | | 4 | 41,37 | —2,20 |
| 19 | 6 | 43,62 | | 4 | 40,37 | —3,25 |
| 20 | 5 | 43,51 | | 5 | 41,06 | —2,45 |
| 21 | 4 | 43,93 | | 2 | 41,49 | —2,44 |
| 22 | 6 | 44,07 | | 3 | 41,14 | —2,93 |
| 23 | 6 | 44,02 | | 3 | 41,07 | —2,95 |
| 24 | 7 | 43,79 | | 3 | 42,72 | —1,07 |
| 25 | 6 | 42,75 | | 4 | 42,26 | —0,49 |
| 26 | 7 | 43,81 | | 3 | 42,59 | —1,22 |
| 27 | 7 | 43,93 | | 3 | 43,22 | —0,71 |
| 28 | 5 | 43,58 | | 4 | 42,96 | —0,62 |
| 29 | 6 | 44,39 | | 4 | 43,02 | —1,37 |
| 30 | 8 | 43,96 | | 3 | 43,14 | —0,93 |
| 31 | | | | 2 | 42,91 | |
| Feb. 1 | 7 | 43,75 | | 2 | 44,39 | +0,64 |
| 2 | | | | 4 | 43,61 | |
| 3 | 6 | 43,63 | | 3 | 44,27 | +0,64 |
| 4 | 7 | 43,65 | | 2 | 42.30 | —1,35 |
| 5 | 8 | 43,41 | | 3 | 42.66 | —0,75 |
| 6 | 11 | 43,63 | | 3 | 43.41 | —0,22 |
| 7 | 5 | 43,82 | | 4 | 41,71 | —2,11 |
| 8 | 8 | 44,06 | | 3 | 41,72 | —2,34 |
| 9 | 7 | 44,36 | | 3 | 42.25 | —2 11 |
| 10 | 6 | 43,65 | | 3 | 41,78 | —1,87 |
| 11 | 6 | 44,22 | | 4 | 42,09 | —2,13 |
| 12 | 6 | 43,18 | | 5 | 41.92 | —1,26 |
| 13 | 6 | 43,33 | | 5 | 42,81 | —0,52 |

| Date. | No. of observations. | Index Error by Stars. | Remarks. | No. of observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1837 | | ′ ″ | | | ′ ″ | |
| Feb. 14 | 6 | —0 43,32 | | 5 | —0 43,07 | —0,25 |
| 15 | 5 | 43,37 | | 4 | 42,77 | —0,60 |
| 16 | 8 | 44,41 | | 3 | 43,00 | —1,62 |
| 17 | | | | 4 | 42,58 | |
| 18 | 6 | 44,06 | | 4 | 42,11 | —1,95 |
| 19 | 5 | 44,13 | | 3 | 42,76 | —1,37 |
| 20 | 7 | 43,87 | | 2 | 42,58 | —1,18 |
| 21 | | | Mean—43″,83 | 3 | 42,80 | |
| 22 | | | I took out the axis;—cleaned it—applied fresh oil, and adjusted the microscopes. | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | 5 | 41,17 | | 3 | 41,82 | +0,65 |
| 27 | 6 | 41,23 | | 3 | 41,18 | —0.05 |
| 28 | 5 | 41,19 | | 3 | 40,38 | —0,81 |
| Mar. 1 | | | | 4 | 40,81 | |
| 2 | | | | 4 | 43,00 | |
| 3 | | | | 4 | 43,44 | |
| 4 | 8 | 41,15 | | 5 | 39,78 | —1,23 |
| 5 | | | Mean—41″,18 | 5 | 40,06 | |
| 6 | 8 | 40,42 | | 4 | 39,58 | —0,84 |
| 7 | 6 | 40,02 | | 4 | 41,93 | +1,91 |
| 8 | 6 | 39,61 | | 4 | 40,54 | +0,93 |
| 9 | 6 | 39,94 | | 5 | 40,25 | +0,31 |
| 10 | 6 | 39,24 | | 5 | 40,66 | +1,42 |
| 11 | 7 | 39,08 | | 5 | 40,62 | +1,54 |
| 12 | 5 | 39,64 | | 5 | 40,44 | +0,80 |
| 13 | 9 | 39,70 | | 3 | 40,06 | +0,50 |
| 14 | | | | 4 | 40,33 | |
| 15 | 9 | 39,52 | | 4 | 40,15 | +0,63 |
| 16 | 9 | 40,07 | | 4 | 39,45 | —0,62 |
| 17 | 7 | 40,08 | | 5 | 39,25 | —0,83 |
| 18 | 8 | 40,60 | | 5 | 39,78 | —0,82 |
| 19 | 8 | 40,39 | | 5 | 39,68 | —0,71 |
| 20 | 8 | 40,59 | | 3 | 39,29 | —1,30 |
| 21 | 5 | 40,50 | | 3 | 39,19 | —1,31 |
| 22 | 8 | 39,86 | | 4 | 39,30 | —0,56 |
| 23 | 6 | 39,58 | | 2 | 39,58 | 0,00 |
| 24 | 7 | 40,12 | | 3 | 39,27 | —0,65 |
| 25 | | | | 3 | 39,67 | |
| 26 | 9 | 40,48 | | 4 | 40,14 | —0,59 |
| 27 | | | | 4 | 39,65 | |
| 28 | 6 | 40,82 | | 4 | 40,24 | —0,48 |
| 29 | | | | 2 | 40,44 | |
| 30 | 7 | 40,16 | | 2 | 40,75 | +0,26 |
| 31 | | | Mean—40″,44 | 2 | 40,08 | |
| April 1 | 7 | 39,03 | | 4 | 38,64 | —0,26 |
| 2 | | | | 4 | 38,97 | |
| 3 | | | | 4 | 38,70 | |
| 4 | 7 | 40,38 | | 4 | 38,78 | —1,71 |
| 5 | | | | 4 | 38,56 | |

| Date. | No. of observations. | Index Error by Stars. | Remarks. | No. of observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1837 | | ′ ″ | | | ′ ″ | |
| April 6 | 6 | —0 38,75 | | 4 | —0 39,07 | —0,07 |
| 7 | | | | 4 | 38,30 | |
| 8 | | | | 2 | 37,15 | |
| 9 | 5 | 37,58 | | 2 | 37,48 | +0,07 |
| 10 | | | | 4 | 38,32 | |
| 11 | 8 | 37,75 | | 5 | 37,62 | —0,13 |
| 12 | 10 | 37,84 | | 4 | 38,95 | +0,69 |
| 13 | | | | 4 | 38,10 | |
| 14 | | | | 3 | 37,82 | |
| 15 | 9 | 37,58 | | 2 | 37,76 | +0,25 |
| 16 | | | | 2 | 37,90 | |
| 17 | — | ——— | | 4 | 38,37 | |
| 18 | 6 | 36,81 | | 4 | 38,26 | +1,45 |
| 19 | 6 | 37,09 | | 4 | 37,72 | +0,63 |
| 20 | 6 | 37,06 | | 3 | 37,65 | +0,59 |
| 21 | 6 | 38,19 | | 3 | 38,12 | —0,07 |
| 22 | 5 | 38,88 | | 5 | 37,35 | —1,53 |
| 23 | 8 | 38,07 | | 5 | 37,69 | —0,38 |
| 24 | 9 | 38,04 | | 5 | 38,43 | +0,05 |
| 25 | | | | 5 | 37,76 | |
| 26 | 6 | 37,01 | | 5 | 38,01 | +1,00 |
| 27 | 8 | 38,73 | | 4 | 37,53 | —1,48 |
| 28 | | ——— | Mean — 37″,36 | 3 | 36,97 | |
| 29 | | | | 3 | 37,64 | |
| 30 | | | | 2 | 38,50 | |
| May 1 | 8 | 38,54 | | 4 | 37,73 | —0,81 |
| 2 | 10 | 39,99 | | 3 | 38,07 | —2,29 |
| 3 | | | | 5 | 37,33 | |
| 4 | 7 | 38,19 | | 5 | 37,78 | —0,89 |
| 5 | | | | 4 | 36,82 | |
| 6 | | | | 4 | 36,56 | |
| 7 | | | | 2 | 37,26 | |
| 8 | 8 | 38,00 | | 3 | 37,47 | —0,50 |
| 9 | | | | 4 | 37,76 | |
| 10 | 6 | 37,63 | | 3 | 37,45 | —0,18 |
| | | ——— | Mean — 38″,47 | | | |
| 11 | 8 | 37,08 | | 3 | 37,55 | +0,53 |
| 12 | | | | 3 | 37,67 | |
| 13 | | | | 4 | 37,13 | |
| 14 | 7 | 37,98 | | 3 | 38,10 | —0,11 |
| 15 | | | | 3 | 37,65 | |
| 16 | 8 | 38,39 | | 4 | 37,33 | —0,90 |
| 17 | | | | 4 | 37,65 | |
| 18 | | | | 4 | 37,49 | |
| 19 | | | | 4 | 36,87 | |
| 20 | | | | 4 | 37,81 | |
| 21 | | | | 4 | 38,23 | |
| 22 | | | | 4 | 37,78 | |
| 23 | 8 | 37,03 | | 4 | 38,12 | +1,17 |
| 24 | | | | 2 | 38,28 | |

| Date. | No. of observations. | Index Error by Stars. | Remarks. | No. of observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1837 | | ′ ″ | | | ′ ″ | |
| May 25 | | | | 2 | —0 38,14 | |
| 26 | | | | 2 | 37,82 | |
| 27 | | | | 2 | 37,65 | |
| 28 | 8 | —0 37,70 | | 2 | 37,95 | +0,17 |
| 29 | | | | 2 | 38,02 | |
| | | ——— | Mean — 37″,63 | | | |
| 30 | 7 | 36,69 | | 3 | 38,73 | +1,84 |
| 31 | | | | 3 | 38,34 | |
| June 1 | | | | 2 | 38,28 | |
| 2 | | | | 2 | 38,26 | |
| 3 | | | | 2 | 37,07 | |
| 4 | | | | 2 | 37,72 | |
| 5 | 6 | 36,66 | | 2 | 37,49 | +0,83 |
| 6 | 6 | 36,85 | | 3 | 37,10 | +0,25 |
| 7 | 5 | 36,07 | | 3 | 37,46 | +1,39 |
| 8 | 5 | 35,75 | | 3 | 37,46 | +1,71 |
| 9 | 5 | 35,90 | | 3 | 37,69 | +1,79 |
| 10 | 5 | 37,37 | | 2 | 37,37 | 0,00 |
| 11 | 8 | 36,53 | | 3 | 37,66 | +1,13 |
| 12 | 4 | 36,92 | | 3 | 37,67 | +0,75 |
| 13 | | | | 2 | 38,01 | |
| 14 | 5 | 36,16 | | 2 | 37,36 | +1,20 |
| | | ——— | Mean — 36″,49 | | | |
| 15 | 8 | 36,58 | | 3 | 37,02 | +0,36 |
| 16 | | | | 2 | 36,86 | |
| 17 | | ——— | | 2 | 37,10 | |
| 18 | | ——— | | 2 | 37,43 | |
| 19 | | ——— | | 2 | 37,36 | |
| 20 | | ——— | | 2 | 36,12 | |
| 21 | 6 | 35,96 | | 3 | 35,65 | +0,03 |
| 22 | | | | 3 | 36,33 | |
| 23 | 4 | 36,31 | | 3 | 36,24 | —0,07 |
| 24 | 6 | 34,95 | | 3 | 36,01 | +1,06 |
| 25 | 7 | 36,68 | | 3 | 36,44 | —0,24 |
| 26 | 6 | 36,95 | | 3 | 35,30 | —1,65 |
| 27 | | | | 3 | 35,82 | |
| 28 | 7 | 36,60 | | 2 | 36,62 | —0,12 |
| 29 | | | | 2 | 36,71 | |
| 30 | | | | 2 | 36,78 | |
| July 1 | | | | 3 | 36,82 | |
| 2 | | | | 2 | 36,65 | |
| 3 | 7 | 35,74 | | 4 | 37,03 | +1,29 |
| 4 | | | | 2 | 37,20 | |
| 5 | | | | 2 | 37,13 | |
| 6 | | | | 3 | 35,88 | |
| 7 | | | | 2 | 35,61 | |
| 8 | 7 | 35,33 | | 3 | 35,38 | +0,05 |
| 9 | 7 | 36,14 | | 3 | 35,30 | —0,84 |
| | | ——— | Mean — 36″,12 | | | |
| 10 | | | | 4 | 35,47 | |
| 11 | | 35,52 | | 5 | 36,41 | +0,89 |

| Date. | No. of observations. | Index Error by Stars. | Remarks. | No. of observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1837 | | ′ ″ | | | ″ ′ | |
| July 12 | | | | 4 | —0 35,78 | |
| 13 | 5 | —0 35,95 | | 4 | 35,45 | —0,50 |
| 14 | 10 | 36,18 | | 3 | 35,57 | —0,15 |
| 15 | | | | 4 | 36,49 | |
| 16 | 5 | 36,12 | | 3 | 36,08 | —0,04 |
| 17 | | | | 3 | 36,15 | |
| 18 | | | | 2 | 35,76 | |
| 19 | | | | 3 | 36,34 | |
| 20 | | | | 3 | 36.35 | |
| 21 | | | | 2 | 36,12 | |
| 22 | | 36,13 | | 2 | 36,55 | +0,42 |
| 23 | | | | 3 | 36,38 | |
| 24 | | | | 2 | 36,32 | |
| 25 | | | | 3 | 35,99 | |
| 26 | | | | 3 | 35.78 | |
| 27 | | | | 3 | 36,19 | |
| 28 | | | | 2 | 36,41 | |
| 29 | | | | 2 | 35,80 | |
| 30 | | | | 2 | 36,10 | |
| 31 | | | | 2 | 36,63 | |
| Aug. 1 | | | | 2 | 35,66 | |
| 2 | | | | 2 | 36,33 | |
| 3 | | | | 2 | 36,62 | |
| 4 | | 37,11 | | 2 | 35,66 | —1,06 |
| 5 | | | | 2 | 35,95 | |
| 6 | | | | 2 | 36,10 | |
| 7 | 6 | 36,56 | | 3 | 36,22 | —0,41 |
| 8 | | | | 4 | 36 09 | |
| 9 | 6 | 37,42 | | 4 | 35,59 | —1,83 |
| 10 | 9 | 36,58 | | 4 | 35.60 | —1,11 |
| 11 | | | | 3 | 35,35 | |
| 12 | 5 | 37,32 | | 4 | 35,20 | —2,12 |
| 13 | | | | 2 | 35,00 | |
| 14 | | | | 2 | 35.41 | |
| 15 | | | | 2 | 37,42 | |
| 16 | 5 | 38,09 | | 2 | 37,31 | —1,74 |
| 17 | | | | 2 | 36,65 | |
| 18 | | | | 2 | 36,60 | |
| 19 | | | | 2 | 36,51 | |
| 20 | | | | 2 | 35,93 | |
| 21 | 6 | 38,50 | | 2 | 36,20 | —2,03 |
| 22 | | | | 3 | 36,75 | |
| 23 | | | | 2 | 36,27 | |
| 24 | | | | 2 | 35,70 | |
| 25 | 8 | 36,52 | | 2 | 36,06 | —0,10 |
| 26 | | | | 2 | 36,30 | |
| 27 | | | | 3 | 37,61 | |
| 28 | 6 | 37,71 | | 3 | 37,10 | —0,61 |
| 29 | 6 | 38,04 | | 4 | 36,46 | —1,58 |

| Date. | No of observations. | Index Error by Stars. | Remarks. | No. of observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1837 | | ′ ″ | | | ′ ″ | |
| Aug. 30 | | | | 3 | —0 36,13 | |
| 31 | | | | 2 | 36,66 | |
| Sep. 1 | | | | 2 | 36,71 | |
| 2 | | | | 2 | 35,13 | |
| 3 | 6 | —0 38,45 | | 2 | 35,52 | —2,37 |
| 4 | | | | 2 | 36,21 | |
| 5 | | | | 2 | 36,02 | |
| 6 | | | | 2 | 36,27 | |
| 7 | | | | 2 | 36.05 | |
| 8 | | | | 2 | 36,07 | |
| 9 | | | | 2 | 37,10 | |
| 10 | 12 | 37,18 | | 2 | 37,80 | +0,10 |
| 11 | | | | 2 | 37,49 | |
| 12 | | | | 3 | 36.74 | |
| 13 | 6 | 38,03 | | 4 | 36,92 | —1,11 |
| 14 | 6 | 37,96 | | 4 | 36,69 | —1,27 |
| 15 | 5 | 37,81 | | 4 | 37,09 | —0,72 |
| 16 | 7 | 38.00 | | 3 | 36,88 | —1,12 |
| 17 | 6 | 39,34 | | 3 | 37,15 | —2,19 |
| 18 | 6 | 38,73 | | 3 | 37,16 | —1,57 |
| 19 | 6 | 37,55 | | 3 | 36,97 | —0,58 |
| 20 | 6 | 38,29 | | 4 | 37,47 | —0,82 |
| 21 | 9 | 39,29 | | 4 | 38,73 | —0,56 |
| 22 | 8 | 38,97 | | 4 | 39,72 | +0,75 |
| 23 | 5 | 38,36 | | 4 | 37,65 | —0,71 |
| 24 | 6 | 38,45 | | 3 | 37,85 | —0,60 |
| 25 | 9 | 38,17 | | 3 | 38,17 | —0,19 |
| 26 | | | | 3 | 37,79 | |
| 27 | 7 | 37,74 | | 3 | 38,45 | +0,28 |
| 28 | | | | 3 | 37,60 | |
| 29 | | | | 2 | 37,69 | |
| 30 | | | | 2 | 37,62 | |
| Oct. 1 | | | Continued cloudy weather. | 2 | 37,70 | |
| 2 | | | | 2 | 37,91 | |
| 3 | | | | 2 | 37,76 | |
| 4 | | | | 2 | 37,56 | |
| 5 | | | | 2 | 37,49 | |
| 6 | | | | 2 | 38,40 | |
| 7 | | | | 2 | 37,67 | |
| 8 | | | | 2 | 37,46 | |
| 9 | 10 | 37,67 | | 3 | 37,66 | +0,18 |
| 10 | | | | 4 | 38,04 | |
| 11 | | | | 2 | 37,81 | |
| 12 | 6 | 37,76 | | 4 | 37,68 | —0,08 |
| 13 | 5 | 39,05 | | 4 | 38,11 | —0,94 |
| 14 | 8 | 38,34 | | 3 | 37,79 | —0,40 |
| 15 | | | | 3 | 38,09 | |
| 16 | 6 | 38,42 | | 4 | 38,66 | +0,24 |
| 17 | 8 | 38,32 | | 3 | 38,55 | +0,27 |
| 18 | | | | 4 | 38,63 | |
| 19 | | | | 2 | 38,66 | |

| Date. | No. of observations. | Index Error by Stars. | Remarks. | No. of observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1837 | | ′ ″ | | | ′ ″ | |
| Oct. 20 | | | | 2 | —0 37,38 | |
| 21 | | | | 3 | 38,41 | |
| 22 | | | | 2 | 38,17 | |
| 23 | } 7 | —0 37,91 | | 4 | 37,98 | } —0,03 |
| 24 | | | | 3 | 37,78 | |
| 25 | 6 | 37,82 | | 4 | 37,10 | —0,72 |
| 26 | | | | 2 | 37,49 | |
| 27 | | | | 2 | 38,39 | |
| 28 | | | | 2 | 37,99 | |
| 29 | | | | 1 | 37,00 | |
| 30 | | | | 2 | 37,49 | |
| 31 | | | | 1 | 37,23 | |
| Nov. 1 | | | | 2 | 37,20 | |
| 2 | | | | 2 | 37,38 | |
| 3 | | | | 2 | 36,71 | |
| 4 | | | | 2 | 35,75 | |
| 5 | | | | 2 | 35,23 | |
| 6 | | | | 1 | 34,57 | |
| 7 | } 5 | 35,33 | | 1 | 34,63 | } —0,67 |
| 8 | | | | 2 | 34,70 | |
| 9 | | | | 2 | 34,76 | |
| 10 | | | | 2 | 34,32 | |
| 11 | } 5 | 34,46 | | 4 | 34,97 | } +0,21 |
| 12 | | | | 2 | 34,37 | |
| 13 | | | | 4 | 34,29 | |
| 14 | } 9 | 34,55 | | 3 | 34,22 | } —0,82 |
| 15 | | | | 3 | 33,24 | |
| 16 | | | | 3 | 34,17 | |
| 17 | 6 | 34,21 | | 4 | 34,41 | +0,20 |
| 18 | | | | 2 | 33,46 | |
| 19 | | | | 3 | 34,38 | |
| 20 | | | | 3 | 34,27 | |
| 21 | } 10 | 34,55 | | 3 | 34,86 | } —0,06 |
| 22 | | | | 3 | 34,53 | |
| 23 | | | | 3 | 34,77 | |
| 24 | | | | 4 | 35,17 | |
| 25 | } 8 | 35,15 | | 3 | 34,46 | } —0,69 |
| 26 | | | | 4 | 34,47 | |
| 27 | 8 | 34,91 | | 4 | 35,03 | +0,12 |
| 28 | | | | 3 | 34,53 | |
| 29 | | | | 3 | 34,93 | |
| 30 | } 7 | 35,77 | | 3 | 34,56 | } —0,95 |
| Dec. 1 | | | | 4 | 34,98 | |
| 2 | | | | 3 | 35,12 | |
| 3 | | | | 3 | 34,75 | |
| 4 | | | | 3 | 35,17 | |
| 5 | | | | 3 | 35,26 | |
| 6 | | | | 2 | 34,76 | |
| 7 | | | | 3 | 34,44 | |
| 8 | | | | 2 | 34,21 | |
| 9 | | | | 3 | 34,22 | |

Continued cloudy weather peculiar to the N. E. Monsoon.

| Date. | No. of Observations. | Index Error by Stars. | Remarks. | No of Observations. | Index Error by Reflecting Collimator. | Difference. |
|---|---|---|---|---|---|---|
| 1837 | | ′ ″ | | | ′ ″ | |
| Dec. 10 | | | | 2 | —0 32,76 | |
| 11 | | | | 3 | 33,02 | |
| 12 | | | | 3 | 33,67 | |
| 13 | | | | 3 | 32,53 | |
| 14 | 5 | —0 34,98 | | 3 | 33,89 | —1,09 |
| 15 | 9 | 35,27 | | 3 | 32,95 | —2,21 |
| 16 | | | | 2 | 33,17 | |
| 17 | 7 | 35,13 | | 4 | 33,02 | —2,17 |
| 18 | | | | 4 | 32,91 | |
| 19 | 9 | 34,55 | | 3 | 32,91 | —1,58 |
| 20 | | | | 4 | 33,03 | |
| 21 | 7 | 34,37 | | 2 | 33,72 | —0,96 |
| 22 | | | | 2 | 32,80 | |
| 23 | | | | 4 | 33,74 | |
| 24 | | | | 1 | 33,55 | |
| 25 | 5 | 33,54 | | 3 | 33,09 | —0,45 |
| 26 | 6 | 34,97 | | 3 | 33,71 | —1,26 |
| 27 | 11 | 34,77 | | 3 | 33,61 | —1,19 |
| 28 | | | | 4 | 33,56 | |
| 29 | 7 | 35,42 | | 3 | 34,34 | —1,08 |
| 30 | | 36,17 | | 2 | 36,64 | +0,75 |
| 31 | | | | 2 | 37,20 | |

Taking the means of the column "difference", and putting $d$ L for the error of the Assumed Latitude, and E for the error of the four divisions employed, we get

| | | |
|---|---|---|
| from 260 Observations in 1835 | | $E + d\,L = -0'',06$ |
| 190 | 1836 | $= -0\ ,65$ |
| 171 | 1837 | $= -0\ ,55$ |
| Mean | | $= -0\ ,37$ |

The discordance here found between the result for 1835 as compared with that for 1836 and 1837, is, as far as our present knowledge extends, chargeable alone to error of observation: it adds one to a great many other cases of daily occurrence, which shew, that notwithstanding the facility with which an accuracy of one or two seconds may be attained, (even by a single observation) still, how little control continued observation gives us over the fraction of a second.

# RESULT OF OBSERVATIONS MADE WITH THE TRANSIT INSTRUMENT AND MURAL CIRCLE.

It has hitherto been a constant source of regret to me,—that whilst the observations of the fixed Stars and Planets, have come out—in a manner creditable to the Madras Instruments and Observers—still, that the observations of the Sun have been discordant to a degree little calculated to confer credit upon either—It is not that the *mean results* have differed much at any time, from those determined at other observatories; but the discordance found among individual results reaches to an amount (occasionally 5 or 6 seconds + or —) which could hardly be credited: during the past two years this subject has occupied no small share of my attention, and the result has been I am sorry to say but little satisfactory. During the Autumn of 1835 and in 1836 and 1837, it had generally been my custom, to compute the Sun's N. P. D.—set the instrument, and read off the 4 Microscopes previously to opening the shutters for the meridian observation; the comparison of these readings with those made at the time of meridian passage, shews that no change is ever effected upon the relative position of the microscopes by the Sun shining upon the Instrument: to discover if the Index Error remained constant under these circumstances,—I made two or three observations with the Reflecting Collimator at a few minutes before Noon; and then, opening the shutter,—allowed the Sun to shine upon the Instrument for 5 minutes before the meridian passage, immediately after which, the Observation with the Reflecting Collimator was repeated; the result shewed, that no appreciable change had occurred from the action of the Sun's rays upon the Instrument for this time:—under these circumstances I am reluctantly compelled to proceed, and leave this matter still unexplained—In the table which follows, the meridian observations of the Sun at the Transit have it will be observed, on many occasions been omitted, which has arisen in consequence of no known star having been observed during the day time—when the uncertainty of the clock's rate would not permit its error to be interpolated from the evening observations.

The observed transit of the 1st and 2d limb over the five wires, furnishes us with the value of the apparent semidiameter; from which, the *mean horizontal semidiameter* $= \left(\frac{\text{Sun's 2 L.} - \text{1 L.}}{2}\right) \times 15 \left(1 + \frac{a' - a}{48}\right)$ sin N. P. D. × dist. (Earth — Sun)

At the Circle it has been usual to observe either the North limb alternately with the South limb at consecutive transits, or to observe on the same day—the N. P. D. of the one limb at 30 seconds *before* the meridian passage, and that of the other at 30 seconds after it—whereby the mean *vertical* semidiameter of the Sun has been computed from the formulæ—

M. V. Semid. $= \frac{\text{N. P. D. Sun's South L.} - \text{N. P. D. Sun's North L.} + dr. \pm \text{d D.} - \text{C} - \text{T.}}{2} \times$ dist. (Sun—Earth.) where $a'$, $a$, represent the A. R. of the Sun at the noon following, and preceding the day of observation; *dr*, the difference of the refractions due to the N. and S. limbs; *d* D, the change of Declination in $1^m$ of time (the interval between the observations), C a correction due to a small inclination of the horizontal wire; which, up to the 19th June 1836 amounted to 1″,46 but has since been reduced to 0; and T = 2″,42 is the value of the diameter of the wire.

## *Comparison of the Observed A. R. and N. P. D. of the Sun, with the places interpolated from the Nautical Almauac, &c.*

| 1836 | Right Ascension | | Error of Tables. | North Polar Distance | | Error of Tables. | Mean Semidiameter. | |
|---|---|---|---|---|---|---|---|---|
| | from Observation | from N. A. | | from observation. | from N. A. | | Horizontal. | Vertical. |
| | h. m. s. | s. | ″ | ° ′ ″ | ″ | ″ | ′ ″ | |
| Jan. 2 | 18 47 45,02 | 44,60 | — 0,42 | 113 0 25,15 | 28,60 | + 3,45 | | |
| 3 | 52 9,79 | 9,30 | — 0,49 | 112 55 8,28 | 12,50 | + 4,22 | 16 2,01 | |
| 4 | 56 34,21 | 33,70 | — 0,51 | 112 49 28,38 | 29,00 | + 0,62 | 0,27 | |
| 6 | 19 5 21,47 | 21,10 | — 0,37 | 112 36 37,82 | 40,90 | + 3,08 | 1,96 | |
| 7 | 9 44,65 | 44,20 | — 0,45 | 112 29 32,95 | 36,70 | + 3,75 | 1,87 | |
| 8 | 14 7,04 | 6,90 | — 0,14 | 112 22 5,58 | 5,70 | + 0,12 | 3,72 | |
| 9 | 18 28,92 | 29,00 | + 0,08 | 112 14 5,62 | 8,40 | + 2,58 | 3,68 | |
| 10 | 22 50,95 | 50,60 | — 0,35 | 112 5 43,26 | 44,80 | + 1,54 | 2,68 | |
| 11 | 27 12,31 | 11,80 | — 0,51 | 111 56 52,36 | 55,40 | + 3,04 | 15 59,90 | |
| 13 | 35 52,80 | 52,30 | — 0,50 | 111 37 58,00 | 59,70 | + 1,70 | 59,80 | |
| 14 | 40 11,93 | 11,80 | — 0,13 | 111 27 50,49 | 53,90 | + 3,41 | 55,96 | |
| 15 | 44 | 30,40 | | 111 17 21,46 | 23,20 | + 1,74 | 16 3,58 | |
| 16 | 48 48,91 | 48,60 | — 0,31 | 111 6 28,03 | 27,90 | — 0,13 | 2,32 | |
| 17 | 53 6,12 | 5,90 | — 0,22 | 110 55 7,89 | 8,30 | + 0,41 | 15 59,66 | |
| 18 | 57 22,85 | 22,70 | — 0,15 | 110 43 25,71 | 24,80 | — 0,91 | 58,27 | |
| 19 | 20 1 39,05 | 38,70 | — 0,35 | 110 31 16,97 | 17,80 | + 0 83 | 16 1,18 | |
| 20 | 5 54,20 | 53,90 | — 0,30 | | | | | |
| 21 | 10 8,85 | 8,40 | — 0,45 | 110 5 55,61 | 54,00 | — 1,61 | 1,67 | |
| 22 | 14 22,30 | 22,10 | — 0,20 | 109 52 37,44 | 38,40 | + 0,96 | 0,47 | |

| 1836 | Right Ascension | | Error of Tables. | North Polar Distance | | Error of Tables | Mean Semidiameter. | |
|---|---|---|---|---|---|---|---|---|
| | from observation. | from N. A. | | from observation. | from N. A. | | Horizontal. | Vertical. |
| | h. m. s. | s. | " | ° ' " | " | " | ' " | |
| Jan. 23 | 20 18 35,36 | 35,00 | — 0,36 | 109 39 1,40 | 0,50 | — 0,90 | 15 58,70 | |
| 24 | 22 47,23 | 47,10 | — 0,13 | | | | 16 2,14 | |
| 25 | 26 58,56 | 58,40 | — 0,16 | 109 10 34,83 | 39,30 | + 4,47 | 1,10 | |
| 26 | 31 9,09 | 8,90 | — 0,19 | | | | 0,80 | |
| 27 | 35 19,22 | 18,60 | — 0,62 | 108 40 54,70 | 53,90 | — 0,80 | 1,96 | |
| 28 | 39 27,64 | 27,50 | — 0,14 | 108 25 26,81 | 30,60 | + 3,79 | 1,82 | |
| 29 | 43 35,76 | 35,40 | — 0,36 | 108 9 44,31 | 47,60 | + 3,29 | 0,90 | |
| 30 | 47 43,14 | 42,60 | — 0,54 | 107 53 42,30 | 45,00 | + 2,70 | 15 59,93 | |
| 31 | 51 49,04 | 48,90 | — 0,14 | | | | 16 2,30 | |
| Feb. 1 | 55 54,70 | 54,30 | — 0,40 | | | | 2,48 | |
| 2 | 59 59,35 | 58,90 | — 0,45 | 107 3 46,33 | 44,80 | — 1,53 | 2,16 | |
| 3 | 21 4 3,31 | 2,70 | — 0,61 | 106 46 26,44 | 28,30 | + 1,86 | 1,50 | |
| 4 | 8 6,38 | 5,80 | — 0,58 | 106 28 54,05 | 54,40 | + 0,35 | 0,30 | |
| 5 | 12 8,81 | 8,00 | — 0,81 | 106 11 2,81 | 3,50 | + 0,69 | | |
| 6 | 16 10,27 | 9,40 | — 0,87 | 105 52 55,22 | 55,80 | + 0,58 | 1,66 | |
| 7 | 20 10,04 | 9,90 | — 0,14 | 105 34 33,47 | 31,70 | — 1,77 | 4,30 | |
| 8 | 24 10,32 | 9,70 | — 0,62 | 105 15 54,66 | 51,70 | — 2,96 | 1,20 | |
| 9 | 28 9,47 | 8,70 | — 0,77 | 104 56 58,82 | 56,20 | — 2,62 | 0,68 | |
| 10 | 32 7,77 | 7,00 | — 0,77 | | | | 0,47 | |
| 11 | 36 4,72 | 4,50 | — 0,22 | 104 18 15,55 | 20,00 | + 4,45 | | |
| 12 | 40 1,54 | 1,20 | — 0,34 | 103 58 37,19 | 40,30 | + 3,11 | 15 58,98 | |
| 13 | 43 57,52 | 57,20 | — 0,32 | 103 38 41,35 | 46,70 | + 5,35 | 59,86 | |
| 14 | 47 52,40 | 52,30 | — 0,10 | 103 18 37,35 | 39,60 | + 2,25 | 16 2,28 | |
| 15 | 51 47,18 | 46,80 | — 0,38 | 102 58 14,93 | 19,40 | + 4,47 | 1,15 | |
| 16 | 55 41,20 | 40,50 | — 0,70 | 102 37 42,53 | 46,70 | + 4,17 | 0,06 | |
| 17 | 59 34,09 | 33,50 | — 0,59 | 102 16 58,93 | 1,80 | + 2,87 | 15 59,75 | |
| 18 | 22 3 26,24 | 25,70 | — 0,54 | 101 56 0,78 | 5,20 | + 4,42 | 16 2,17 | |
| 19 | 7 17,63 | 17,30 | — 0,33 | 101 34 55,24 | 57,30 | + 2,06 | 1,10 | |
| 20 | 11 8,67 | 8,10 | — 0,57 | 101 13 37,89 | 38,20 | + 0,31 | 0,75 | |
| 21 | 14 58,47 | 58,40 | — 0,07 | 100 52 5,56 | 9,00 | + 3,44 | 3,18 | |
| 22 | 18 48,41 | 47,80 | — 0,61 | | | | 1,06 | |
| 23 | 22 36,87 | 36,60 | — 0,27 | | | | | |
| 24 | 26 25,28 | 24,80 | — 0,48 | 99 46 39,58 | 42,60 | + 3,02 | 2,90 | |
| 25 | 30 12,42 | 12,40 | — 0,02 | 99 24 34,42 | 35,80 | + 1,38 | 0,24 | |
| 26 | 33 59,81 | 59,30 | — 0,51 | 99 2 16,49 | 20,80 | + 4,31 | 1,48 | |
| 27 | 37 46,16 | 45,60 | — 0,56 | 98 39 58,42 | 57,80 | — 0,62 | 1,38 | |
| 28 | 41 32,06 | 31,60 | — 0,46 | 98 17 25,31 | 27,40 | + 2,09 | 1,52 | |
| 29 | 45 17,22 | 16,80 | — 0,42 | 97 54 48,64 | 49,70 | + 1,06 | 1,42 | |
| Mar. 1 | 49 2,15 | 1,80 | — 0,35 | 97 32 3,40 | 5,30 | + 1,90 | 2,30 | |
| 2 | 52 46,02 | 45,90 | — 0,12 | 97 9 12,18 | 14,40 | + 2,22 | | |
| 3 | 56 29,69 | 29,60 | — 0,09 | 96 46 16,18 | 17,50 | + 1,32 | 1,16 | |
| 4 | 23 0 13,02 | 12,80 | — 0,22 | 96 23 10,62 | 15,20 | + 4,58 | 1,32 | |
| 5 | 3 55,67 | 55,50 | — 0,17 | 96 0 5,74 | 7,40 | + 1,66 | 2,48 | |
| 6 | 7 37,60 | 37,90 | + 0,30 | 95 36 55,59 | 54,80 | — 0,79 | 3,38 | |
| 7 | 11 20,16 | 19,70 | — 0,46 | 95 13 40,00 | 37,70 | — 2,30 | 1,12 | |
| 8 | 15 1,91 | 1,30 | — 0,61 | 94 50 15,41 | 16,30 | + 0,89 | 2,78 | |
| 9 | 18 42,63 | 42,50 | — 0,13 | 94 26 52,79 | 51,00 | — 1,79 | 0,62 | |
| 10 | 22 23,56 | 23,40 | — 0,16 | 94 3 21,03 | 22,30 | + 1,27 | 0,67 | |
| 11 | 26 3,86 | 4,00 | + 0,14 | 93 39 49,34 | 50,40 | + 1,06 | | |
| 12 | 29 44,36 | 44,20 | — 0,16 | 93 16 12,32 | 15,80 | + 3,48 | 2,72 | |
| 13 | 33 24,33 | 24,10 | — 0,23 | 92 52 38,95 | 39,10 | + 0,15 | 2,45 | |

| 1836 | Right Ascension | | Error of Tables. | North Polar Distance | | Error of Tables. | Mean Semidiameter. | |
|---|---|---|---|---|---|---|---|---|
| | from observation. | from N. A. | | from observation. | from N. A. | | Horizontal. | Vertical. |
| | h. m. s. | s. | ″ | ° ′ ″ | ″ | ″ | ′ ″ | ′ ″ |
| Mar. 14 | 23 37 4,56 | 3,90 | — 0,66 | 92 28 57,96 | 0,20 | + 2,24 | 16 1,70 | 15 58,02 |
| 15 | 40 43,49 | 43,30 | — 0,19 | | | | 1,68 | 16 2,16 |
| 16 | 44 22,73 | 22,50 | — 0,23 | 91 41 35,63 | 38,10 | + 2,47 | 0,70 | 1,80 |
| 17 | 48 1,66 | 1,50 | — 0,16 | 91 17 53,09 | 55,70 | + 2,61 | 4,14 | 1,82 |
| 18 | 51 40,74 | 40,30 | — 0,44 | 90 54 12,09 | 12,80 | + 0,71 | 2,14 | 0,64 |
| 19 | 55 19,27 | 18,90 | — 0,37 | 90 30 31,33 | 29,90 | — 1,43 | 2,56 | 0,34 |
| 20 | 58 57,11 | 57,50 | + 0,39 | 90 6 46,88 | 47,40 | + 0,52 | | 2,94 |
| 21 | 0 2 35,87 | 35 80 | — 0,07 | | | | 1,42 | |
| 22 | 6 14,33 | 14,10 | — 0,23 | 89 19 26,96 | 25,10 | — 1,86 | 0,86 | |
| 23 | 9 52,53 | 52,20 | — 0,33 | 88 55 45,58 | 46,10 | + 0,52 | 1,80 | |
| 24 | 13 30,13 | 30,20 | + 0,07 | 88 32 7,26 | 8,90 | + 1,64 | 1,92 | |
| 25 | 17 8,63 | 8,20 | — 0,43 | 88 8 31,58 | 33,90 | + 2,32 | 1,86 | 1,92 |
| 26 | 20 46,28 | 46,10 | — 0,18 | 87 44 59,28 | 1,60 | + 2,32 | 2,34 | 5,68 |
| 28 | 28 2,61 | 2,00 | — 0,61 | 87 58 5,42 | 6,20 | + 0,78 | 2,28 | 1,80 |
| 29 | 31 40,04 | 39,90 | — 0,14 | 86 34 41,78 | 43,80 | + 2,02 | 3,65 | |
| 30 | 35 18,07 | 17,90 | — 0,17 | 86 11 24,35 | 25,50 | + 1,15 | 2,05 | |
| 31 | 38 56,02 | 55,90 | — 0,12 | 85 48 14,09 | 11,40 | — 2,69 | 2,17 | |
| April 1 | 42 34,32 | 34,10 | — 0,22 | 85 25 2,72 | 2,30 | — 0,42 | 1,32 | |
| 2 | 46 12,53 | 12,30 | — 0,23 | 85 1 56,19 | 57,90 | + 1,71 | 1,06 | |
| 3 | 49 50,90 | 50,70 | — 0,20 | 84 39 1,80 | 58,90 | — 2,90 | 1,37 | |
| 4 | | | | 84 16 5,44 | 5,40 | — 0,04 | 3,42 | |
| 5 | 57 7,57 | 7,90 | + 0,33 | 83 53 13,11 | 17,70 | + 4,59 | 0,82 | |
| 6 | 1 0 47,01 | 46,70 | — 0,31 | 83 30 30,82 | 36,10 | + 5,28 | 3,54 | |
| 7 | 4 25,77 | 25,90 | + 0,13 | 83 7 57,50 | 1,00 | + 3,50 | 15 59,34 | |
| 8 | 8 5,59 | 5,20 | — 0,39 | 82 45 27,54 | 28,90 | + 1,36 | | |
| 9 | 11 45,03 | 44,90 | — 0,13 | 82 23 8,94 | 12,00 | + 3,06 | 16 1 92 | |
| 10 | 15 24,87 | 24,70 | — 0,17 | 82 0 55,77 | 58,70 | + 2,93 | | |
| 11 | 19 5,31 | 4,90 | — 0,41 | 81 38 51,77 | 53,50 | + 1,73 | 1,44 | |
| 12 | 22 45,55 | 45,40 | — 0,15 | 81 16 55,56 | 56,40 | + 0,84 | 2,14 | 2,58 |
| 13 | 26 26,35 | 26,10 | — 0,25 | 80 55 9,64 | 7,90 | — 1,74 | 0,90 | |
| 14 | 30 7,41 | 7,20 | — 0,21 | | | | 3,52 | |
| 15 | 33 49,00 | 48,70 | — 0,30 | 80 12 2,37 | 57,80 | — 4,57 | 3,82 | |
| 16 | 36 30,48 | 30,60 | + 0,12 | 79 50 41,31 | 37,20 | — 4,11 | 1,24 | |
| 17 | 41 13,38 | 12,80 | — 0,58 | 79 29 27,63 | 26,50 | — 1,13 | 2,88 | |
| 18 | 44 55,39 | 55,29 | — 0,10 | 79 8 24,31 | 26,20 | + 1,89 | 3,14 | |
| 19 | 48 38,52 | 38,30 | — 0,22 | 78 47 32,44 | 36,50 | + 4,06 | 1,62 | |
| 20 | 52 22,09 | 21,70 | — 0,39 | | | | 16 1,20 | |
| 21 | 56 5,86 | 5,50 | — 0,36 | 78 6 28,12 | 31,10 | + 2,98 | 0,64 | |
| 22 | 59 49,95 | 49,70 | — 0,25 | 77 46 14,53 | 15,80 | + 1,27 | 2,94 | |
| 23 | 2 3 34,84 | 34,40 | — 0,44 | 77 26 11,17 | 12,50 | + 1,33 | 0.18 | |
| 24 | 7 19,45 | 19,50 | + 0,05 | 77 6 20,10 | 19,90 | — 0,20 | 15 58,60 | |
| 25 | 11 5,65 | 5,00 | — 0,65 | 76 46 41,94 | 44,10 | + 2,16 | 16 3,72 | |
| 26 | 14 51,63 | 51,10 | — 0,53 | 76 27 18,05 | 19,30 | + 1,25 | 1,46 | 0,34 |
| 27 | 18 38,01 | 37,40 | — 0,61 | 76 8 6,94 | 8,10 | + 1,16 | 0,84 | |
| 28 | 22 25,29 | 24,50 | — 0,79 | 75 49 11,80 | 10,50 | — 1,30 | 1,64 | 3,98 |
| 29 | 26 12,51 | 11,70 | — 0,81 | 75 30 26,44 | 26,90 | + 0,46 | 1,52 | |
| 30 | 30 0,48 | 0,00 | — 0,48 | 75 12 0,12 | 57,80 | — 2,32 | | |
| May 1 | 33 48,65 | 48,60 | — 0,05 | 74 53 44,38 | 43,10 | — 1,28 | 2,10 | |
| 2 | 37 38,19 | 37,70 | — 0,49 | 74 35 41,11 | 43,30 | + 2,19 | 1,40 | |
| 3 | 41 27,29 | 26,40 | — 0,89 | 74 17 57,39 | 58,60 | + 1 21 | | |
| 5 | 49 8,16 | 8,30 | + 0,14 | 73 43 9,71 | 16,10 | + 6,39 | | |

| 1836 | Right Ascension | | Error of Tables. | North Polar Distance | | Error of Tables. | Mean Semidiameter. | |
|---|---|---|---|---|---|---|---|---|
| | from observation. | from N. A. | | from observation. | from N. A. | | Horizontal. | Vertical. |
| | h. m. s. | s. | ″ | ° ′ ″ | ″ | ″ | ′ ″ | ′ ″ |
| May 6 | 2 52 59,15 | 59,60 | + 0,45 | 73 26 14,79 | 18,80 | + 4,01 | | 15 59,28 |
| 7 | 56 51,77 | 51,70 | — 0,07 | 73 9 33,19 | 37,80 | + 4,61 | 16 2,64 | 57,26 |
| 8 | 3 0 44,32 | 44,20 | — 0,12 | 72 53 11,53 | 13,40 | + 1,87 | 2,88 | |
| 9 | | | | 72 37 1,25 | 6,10 | + 4,85 | 3,28 | 59,75 |
| 10 | 8 31,65 | 31,20 | — 0,45 | 72 21 13,83 | 16,00 | + 2,17 | 2,21 | |
| 11 | 22 25,48 | 25,40 | — 0,08 | 72 5 41,78 | 43,60 | + 1,82 | | |
| 13 | | | | 71 35 31,09 | 32,50 | + 1,41 | 0,70 | |
| 14 | | | | 71 20 55,31 | 54,60 | — 0,71 | 0,86 | |
| 15 | 28 8,42 | 8,60 | + 0,18 | | | | 0,52 | |
| 16 | 32 6,23 | 5,80 | — 0,43 | 70 52 31,89 | 35,30 | + 3,41 | 5,40 | 16 1,64 |
| 17 | | | | | | | 5,32 | |
| 18 | 40 1,97 | 1,90 | — 0,07 | | | | 3,56 | |
| 19 | 44 0,87 | 0,90 | + 0,03 | 70 12 32,15 | 32,60 | + 0,45 | 6,78 | |
| 20 | 48 0,18 | 0,40 | + 0,22 | 69 59 55,80 | 51,80 | — 4,00 | 5,96 | |
| 21 | 52 0,10 | 0,30 | + 0,20 | 69 47 33,68 | 31,40 | — 2,28 | 5,96 | |
| 22 | 56 0,84 | 0,90 | + 0,06 | 69 35 33,21 | 31,80 | — 1,41 | 3,74 | 1,26 |
| 23 | 4 0 1,66 | 1,90 | + 0,24 | 69 23 51,81 | 53,20 | + 1,39 | 4,62 | 2,82 |
| 24 | 4 3,51 | 3,80 | + 0,29 | 69 12 34,03 | 35,90 | + 1,87 | 5,76 | 0,10 |
| 25 | 8 5,52 | 5,40 | — 0,12 | 69 1 35,19 | 40,00 | + 4,81 | 5,58 | 2,54 |
| 26 | 12 8,12 | 7,80 | — 0,32 | 68 51 1,85 | 5,80 | + 3,95 | 1,18 | |
| 28 | 20 14,56 | 14,30 | — 0,26 | 68 30 58,41 | 3,10 | + 4,69 | 1,40 | |
| 29 | 24 18,42 | 18,10 | — 0,32 | | | | 2,82 | |
| 30 | 28 22,89 | 22,50 | — 0,39 | 68 12 25,59 | 30,20 | + 4,61 | 2,45 | 0,56 |
| 31 | 33 27,57 | 27,30 | — 0,27 | 67 33 44,01 | 47,30 | + 3,29 | 2,70 | |
| June 1 | 36 33,17 | 32,60 | — 0,57 | 67 55 23,61 | 27,30 | + 3,61 | 1,46 | |
| 4 | 48 50,84 | 50,80 | — 0,04 | | | | 3,78 | |
| 5 | 52 57,64 | 57,50 | — 0,14 | | | | 1,94 | |
| 6 | 57 4,65 | 4,60 | — 0,05 | 67 19 31,42 | 34,90 | + 3,48 | 1,35 | |
| 7 | 5 1 11,92 | 11,90 | — 0,02 | 67 13 31,71 | 35,20 | + 3,49 | 1,46 | |
| 8 | 5 19,69 | 19,70 | + 0,01 | 67 7 53,48 | 59,20 | + 5,72 | 2,38 | 1,18 |
| 9 | 9 27,86 | 27,60 | — 0,26 | 67 2 45,78 | 47,30 | + 1,52 | 15 59,40 | 15 58,12 |
| 10 | 13 36,23 | 36,00 | — 0,23 | 66 58 0,04 | 59,70 | — 0,34 | 16 1,28 | |
| 11 | 17 44,68 | 44,60 | — 0,08 | 66 53 35,48 | 36,30 | + 0,82 | | |
| 12 | 21 54,05 | 53,40 | — 0,65 | 66 49 34,49 | 37,20 | + 2,71 | 2,10 | 16 1,30 |
| 13 | 26 3,19 | 2,50 | — 0,69 | 66 46 2,33 | 2,60 | + 0,27 | 2,82 | |
| 15 | 34 21,04 | 20,90 | — 0,14 | 66 40 2,00 | 7,40 | + 5,40 | 2,82 | |
| 16 | 38 30,55 | 30,40 | — 0,15 | 66 37 45,86 | 46,80 | + 0,94 | 3,60 | |
| 17 | 42 40,08 | 39,90 | — 0,18 | 66 35 48,77 | 50,90 | + 2,13 | 2,76 | 1,32 |
| 18 | 46 49,66 | 49,40 | — 0,26 | 66 34 18,84 | 19,80 | + 0,96 | 2,60 | |
| 19 | 50 58,49 | 59,00 | + 0,51 | 66 33 11,35 | 13,50 | + 2,15 | 2,02 | |
| 20 | 55 9,29 | 8,70 | — 0,59 | 66 32 32,33 | 32,20 | — 0,13 | 2,28 | |
| 21 | | | | 66 32 12,88 | 15,70 | + 2,82 | 0,38 | 3,45 |
| 22 | | | | 66 32 21,88 | 23,90 | + 2,02 | 2,22 | |
| 28 | 6 28 23,74 | 23,10 | — 0,64 | 66 41 53,58 | 54,00 | + 0,42 | | |
| 30 | | | | 66 48 19,60 | 20,60 | + 1,00 | | 3,38 |
| July 1 | | | | 66 52 9,97 | 10,30 | + 0,33 | 1,98 | |
| 2 | 44 56,82 | 56,40 | — 0,42 | 66 56 23,07 | 23,40 | + 0,33 | 1,98 | 1,88 |
| 3 | 46 4,49 | 4,10 | — 0,39 | | | | 4,45 | |
| 4 | | | | | | | 1,34 | |
| 5 | | | | 67 11 28,29 | 30,90 | + 2,61 | 0,44 | |
| 6 | | | | 67 17 21,20 | 20,80 | — 0,40 | 0,47 | |

| 1836 | Right Ascension | | Error of Tables. | North Polar Distance | | Error of Tables. | Mean Semidiameter. | |
|---|---|---|---|---|---|---|---|---|
| | from observation. | from N. A. | | from observation. | from N. A. | | Horizontal. | Vertical. |
| | *h. m. s.* | *s.* | *″* | ° ′ ″ | *″* | *″* | ′ ″ | ′ ″ |
| July 7 | | | | 67 23 29,38 | 34,40 | +5,02 | 16 1,62 | |
| 9 | 7 13 44,69 | 44,00 | —0,69 | 67 37 11,21 | 12,20 | +0,99 | 0,92 | 15 59,95 |
| 10 | 17 49,94 | 49,40 | —0,54 | 67 44 33,17 | 36,00 | +2,83 | 15 59,88 | 58,30 |
| 11 | | | | 67 52 21,46 | 22,90 | +1,44 | 16 2,18 | 16 1,75 |
| 12 | | | | 68 0 27,90 | 32,50 | +4,60 | 0,78 | |
| 13 | | | | 68 9 3,34 | 5,00 | +1,66 | 3,34 | |
| 14 | 34 7,47 | 6,80 | —0,67 | 68 17 54,87 | 59,80 | +4,93 | 1,40 | |
| 15 | 38 10,26 | 10,00 | —0,26 | 68 27 13,12 | 16,90 | +3,78 | 2,52 | |
| 16 | 42 13,09 | 12,70 | —0,39 | 68 36 55,13 | 56,10 | +0,97 | 1,90 | |
| 17 | 46 15,22 | 14,80 | —0,42 | 68 46 53,39 | 57,10 | +3,71 | 2,02 | |
| 18 | | | | 68 57 15,01 | 19,60 | +4,59 | | |
| 19 | 54 17,89 | 17,40 | —0,49 | 69 8 2,44 | 3,70 | +1,26 | 0,70 | |
| 20 | 58 18,25 | 17,80 | —0,45 | 69 19 8,42 | 8,80 | +0,38 | 1,68 | |
| 23 | | | | 69 54 30,55 | 28,40 | —2,15 | 1,26 | 1,06 |
| 26 | 8 22 8,02 | 8,20 | +0,18 | 70 32 48,15 | 48,70 | +0,55 | 0,72 | |
| 27 | 26 4,95 | 4,60 | —0,35 | 70 46 18,08 | 14,40 | —3,68 | 15 57,72 | |
| 28 | 30 0,50 | 0,20 | —0,30 | 71 0 0,38 | 59,10 | —1,28 | 16 1,86 | 15 59,12 |
| 30 | | | | 71 28 23,94 | 24,50 | +0,56 | 2,18 | |
| Aug. 2 | | | | 72 13 22,47 | 18,90 | —3,57 | 1,70 | |
| 4 | | | | | | | 1,64 | |
| 9 | | | | 74 8 4,46 | 3,10 | —1,36 | 1,30 | 16 0,88 |
| 10 | | | | 74 25 34,69 | 30,40 | —4,29 | 0,86 | |
| 14 | | | | 75 37 52,73 | 47,30 | —5,43 | | |
| 15 | | | | 75 56 28,58 | 26,80 | —1,78 | 1,40 | 15 58,20 |
| 16 | | | | 76 15 19,51 | 19,70 | +0,19 | 2,40 | |
| 17 | 9 46 32,10 | 32,00 | —0,10 | 76 34 22,57 | 25,60 | +3,03 | 0,62 | |
| 18 | 50 15,95 | 15,70 | —0,25 | 76 53 43,25 | 44,30 | +1,05 | 1,92 | 16 0,75 |
| 19 | | | | 77 13 18,33 | 15,30 | —3,03 | 2,64 | |
| 21 | 10 1 24,21 | 23,90 | —0,31 | | | | 3,68 | |
| 22 | | | | 78 12 56,01 | 59,80 | +3,79 | 2,42 | |
| 23 | 8 47,00 | 46,80 | —0,20 | 78 33 19,40 | 17,20 | —2,20 | 2,05 | |
| 25 | | | | 79 14 25,41 | 24,10 | —1,31 | 1,80 | |
| 27 | 23 27,74 | 27,60 | —0,14 | 79 56 17,95 | 11,70 | —6,25 | 2,30 | |
| Sep. 7 | 11 3 22,55 | 22,40 | —0,15 | | | | 1,28 | |
| 8 | 6 58,69 | 58,60 | —0,09 | | | | 2,25 | |
| 9 | 10 34,77 | 34,80 | +0,03 | 84 41 43,17 | 38,70 | —4,47 | 1,26 | |
| 11 | 17 46,79 | 46,70 | —0,09 | 85 27 14,99 | 13,90 | —1,09 | 2,00 | |
| 12 | 21 22,28 | 22,50 | +0,22 | 85 50 11,29 | 8,90 | —2,39 | 1,62 | 15 59,72 |
| 16 | 35 44,70 | 44,60 | —0,10 | 87 22 31,57 | 29,00 | —2,57 | 1,64 | 52,62 |
| 17 | | | | 87 45 41,96 | 42,40 | +0,44 | | 16 0,84 |
| 18 | | | | 88 8 55,10 | 58,30 | +3,20 | 1,02 | |
| 19 | 46 30,82 | 30,90 | +0,08 | | | | 15 58,00 | |
| 20 | 50 6,42 | 6,30 | —0,12 | 88 55 36,69 | 36,80 | +0,11 | 59,72 | 1,66 |
| 21 | 53 42,03 | 41,80 | —0,23 | 89 18 59,54 | 58,40 | —1,14 | 16 1,38 | |
| 22 | 57 17,44 | 17,40 | —0,04 | 89 42 24,65 | 21,60 | —3,05 | 0,98 | 3,02 |
| 23 | 12 0 53,26 | 50,03 | —0,26 | | | | 3,52 | |
| 24 | 4 28,85 | 28,80 | —0,05 | | | | 15 58,60 | |
| 25 | 8 4,59 | 4,60 | +0,01 | 90 52 32,54 | 35,20 | +2,66 | 58,20 | |
| 26 | 11 40,99 | 40,70 | —0,29 | 91 16 2,37 | 0,00 | —2,37 | 16 0,32 | |
| 27 | | | | 91 39 25,30 | 24,70 | —0,60 | 15 57,96 | |
| 28 | | | | 92 2 51,39 | 48,60 | —2,79 | 16 1,98 | |

| 1836 | Right Ascension | | Error of Tables. | North Polar Distance | | Error of Tables. | Mean Semidiameter. | |
|---|---|---|---|---|---|---|---|---|
| | from observation. | from N. A. | | from observation. | from N. A. | | Horizontal. | Vertical. |
| | *h. m. s.* | *s.* | ″ | ° ′ ″ | ″ | ″ | ′ ″ | ′ ″ |
| Sep. 29 | 12 22 30,75 | 30,40 | —0,35 | 92 26 12,20 | 11,60 | —0,60 | 16 0,84 | |
| 30 | 26 7,30 | 7,30 | 0,00 | | | | 15 59,20 | |
| Oct. 1 | 29 45,01 | 44,70 | —0,31 | | | | | |
| 4 | 40 38,40 | 38,40 | 0,00 | 94 22 40,39 | 41,10 | +0,71 | 16 1,30 | |
| 5 | | | | 94 45 51,21 | 51,40 | +0,19 | 3,16 | |
| 6 | 47 56,08 | 56,10 | +0,02 | 95 9 0,74 | 58,10 | —2,64 | 1,84 | |
| 7 | 51 35,55 | 35,50 | —0,05 | | | | 0,88 | |
| 8 | 55 15,20 | 15,40 | +0,20 | 95 55 2,68 | 0,10 | —2,58 | 0,80 | |
| 9 | 58 55,83 | 55,60 | —0,23 | 96 17 54,45 | 54,50 | +0,05 | 3,32 | |
| 10 | 13 2 36,57 | 36,40 | —0,17 | 96 40 45,03 | 43,80 | —1,23 | 2,92 | |
| 11 | 6 17,78 | 17,60 | —0,18 | 97 3 23,18 | 27,80 | +4,62 | 0,70 | |
| 12 | 9 59,67 | 59,30 | —0,37 | 97 26 2,62 | 6,00 | +3,38 | 1,40 | |
| 13 | 13 41,89 | 41,60 | —0,29 | 97 48 36,53 | 38,00 | +1,47 | 2,16 | |
| 14 | 17 23,97 | 24,30 | +0,33 | 98 10 59,48 | 3,70 | +4,22 | 1,70 | |
| 15 | 21 7,60 | 7,60 | 0,00 | | | | 3,67 | |
| 16 | 24 51,73 | 51,40 | —0,33 | | | | 3,84 | |
| 17 | | | | | | | 2,92 | |
| 18 | 32 20,80 | 20,80 | 0,00 | 99 39 33,70 | 32,40 | —1,30 | 4,72 | |
| 19 | 36 6,33 | 6,40 | +0,07 | 100 1 19,10 | 19,20 | +0,10 | | |
| 20 | 39 52,70 | 52,60 | —0,10 | 100 23 0,87 | 57,10 | —3,77 | 3,57 | |
| 21 | 43 39,34 | 39,30 | —0,04 | 100 44 25,38 | 25,60 | +0,22 | 2,50 | |
| 22 | 47 27,01 | 26,80 | —0,21 | 101 5 44,16 | 44,30 | +0,14 | 1,92 | |
| 23 | 51 15,15 | 14,90 | —0,25 | | | | 15 58,50 | |
| 24 | | | | 101 47 50,21 | 51,40 | +1,19 | 16 0,58 | |
| 25 | 58 53,74 | 53,20 | —0,54 | 102 8 38,39 | 39,10 | +0,71 | 2,82 | 15 59,88 |
| 26 | | | | 102 29 13,10 | 15,50 | +2,40 | 0,82 | |
| 28 | 14 10 26,42 | 26,20 | —0,22 | | | | | |
| Nov. 2 | | | | 104 47 43,31 | 45,40 | +2,09 | | |
| 5 | | | | 105 43 38,11 | 40,10 | +1,99 | | |
| 6 | 45 47,41 | 47,90 | +0,49 | 106 1 46,61 | 47,80 | +1,19 | 4,10 | |
| 7 | 49 48,28 | 47,80 | —0,48 | 106 19 37,40 | 39,40 | +2,00 | 6,34 | |
| 8 | 53 48,66 | 48,60 | —0,06 | | | | 6,50 | |
| 9 | 57 50,36 | 50,20 | —0,16 | 106 54 34,34 | 32,90 | —1,44 | 4,77 | 16 1,64 |
| 10 | 15 1 52,81 | 52,60 | —0,21 | 107 11 34,52 | 34,00 | —0,52 | 3,94 | 0,96 |
| 11 | 5 56,57 | 56,00 | —0,57 | | | | 4,66 | |
| 12 | 10 0,52 | 0,20 | —0,32 | 107 44 39,18 | 42,20 | +3,02 | 4,45 | |
| 13 | | | | 108 0 45,82 | 48,70 | +2,88 | 3,40 | |
| 22 | 51 28,00 | 27,30 | —0,70 | 110 10 48,53 | 47,70 | —0,83 | 5,62 | |
| 23 | 55 40,60 | 40,40 | —0,20 | 110 23 29,13 | 27,40 | —1,73 | 5,54 | |
| 24 | | | | | | | 2,32 | |
| 25 | 16 4 9,13 | 9,10 | —0,03 | | | | 15 58,70 | |
| 26 | 8 24,66 | 24,50 | —0,16 | 110 59 8,64 | 9,90 | +1,26 | 16 3,48 | |
| 27 | 12 40,86 | 40,60 | —0,26 | 111 10 14,52 | 17,30 | +2,78 | 4,77 | |
| 28 | 16 57,68 | 57,60 | —0,08 | 111 21 1,82 | 0,70 | —1,12 | | |
| 29 | 21 15,53 | 15,20 | —0,33 | 111 31 20,53 | 20,10 | —0,43 | 2,12 | |
| Dec. 1 | | | | 111 50 44,48 | 44,90 | +0,42 | 2,56 | |
| 2 | 34 12,48 | 12,20 | —0,28 | 111 59 47,39 | 50,00 | +2,61 | 8,86 | 0,80 |
| 4 | 42 53,42 | 53,50 | +0,08 | 112 16 43,69 | 43,30 | —0,39 | 4,00 | |
| 5 | 47 15,18 | 15,00 | —0,18 | 112 24 29,91 | 31,20 | +1,29 | 5,02 | 15 59,87 |
| 6 | 51 37,10 | 37,10 | 0,00 | 112 31 51,23 | 52,90 | +1,67 | 4,76 | |
| 7 | 55 59,75 | 59,70 | —0,05 | 112 38 49,79 | 48,10 | —1,69 | 2,43 | |

| 1836 | Right Ascension | | Error of Tables. | North Polar Distance | | Error of Tables. | Mean Semidiameter. | |
|---|---|---|---|---|---|---|---|---|
| | from observation. | from N. A. | | from observation. | from N. A. | | Horizontal. | Vertical. |
| | *h. m. s.* | *s.* | ″ | ° ′ ″ | ″ | ″ | ′ ″ | ′ ″ |
| Dec. 11 | 17 13 34,99 | 34,70 | — 0,29 | 113 1 57,36 | 0,30 | + 2,94 | 16 5,14 | |
| 12 | 17 59,84 | 59,50 | — 0,34 | 113 6 38,05 | 40,00 | + 1,95 | 5,12 | |
| 13 | | | | | | | 1,38 | |
| 16 | | | | 113 20 38,91 | 41,60 | + 2,69 | 5,16 | |
| 17 | 40 7,85 | 7,60 | — 0,25 | 113 22 57,07 | 2,00 | + 4,93 | 4,85 | |
| 19 | 49 0,82 | 0,20 | — 0,62 | 113 26 16,19 | 18,20 | + 2,01 | 3,14 | |
| 20 | 53 27,01 | 26,70 | — 0,31 | | | | | |
| 23 | 18 6 46,87 | 46,30 | — 0,57 | 113 27 10,92 | 11,50 | + 0,58 | 4,00 | 16 2,43 |
| 24 | 11 13,37 | 13,00 | — 0,37 | 113 26 13,43 | 14,10 | + 0,67 | 4,07 | 0,26 |
| 27 | | | | 113 20 31,57 | 32,70 | + 1,13 | 4,40 | 15 59,65 |
| 28 | | | | 113 17 41,18 | 42,70 | + 1,52 | 4,60 | 16 0,48 |
| 29 | | | | 113 14 24,88 | 24,50 | — 0,38 | 2,17 | |
| 31 | 42 15,54 | 15,60 | + 0,06 | 113 6 20,17 | 24,30 | + 4,13 | 3,14 | 2,54 |
| 1837 | | | | | | | | |
| Jan. 2 | | | | 112 56 29,64 | 33,10 | + 3,46 | 5,17 | 15 59,44 |
| 3 | 55 30,60 | 30,50 | — 0,10 | 50 55,34 | 56,30 | + 0,96 | 8,18 | 16 0,37 |
| 5 | 19 4 18,87 | 18,50 | — 0,37 | 38 19,13 | 20,80 | + 1,67 | 7,34 | 15 57,41 |
| 6 | 8 42,53 | 41,90 | — 0,63 | 31 22,36 | 22,60 | + 0,24 | 6,85 | 58,15 |
| 7 | 13 5,30 | 4,80 | — 0,50 | 24 1,01 | 57,60 | — 3,41 | 5,85 | |
| 8 | 17 27,68 | 27,50 | — 0,18 | 16 8,08 | 6,20 | — 1,88 | 6,13 | |
| 9 | 21 49,45 | 49,10 | — 0,35 | 7 45,93 | 48,60 | + 2,67 | 3,82 | 16 1,96 |
| 10 | 26 11,03 | 10,40 | — 0,63 | 111 59 3,92 | 4,90 | + 0,98 | 3,37 | 15 59,73 |
| 11 | 30 31,52 | 31,20 | — 0,32 | 49 55,77 | 55,50 | — 0,27 | 3,54 | 16 0,98 |
| 12 | 34 51,76 | 51,40 | — 0,36 | 40 20,05 | 20,60 | + 0,55 | 2,82 | 15 59,07 |
| 13 | 39 10,99 | 10,80 | — 0,19 | | | | 15 57,40 | |
| 15 | | | | 9 3,41 | 5,90 | + 2,49 | 16 0,52 | |
| 16 | | | | 110 57 52,15 | 52,00 | — 0,15 | 2,16 | 57,07 |
| 17 | | | | 46 11,47 | 14,30 | + 2,83 | | |
| 18 | | | | 34 15,28 | 12,90 | — 2,38 | 3,34 | |
| 19 | 20 4 53,92 | 53,30 | — 0,62 | 21 51,43 | 48,40 | — 3,03 | 2,47 | |
| 20 | 9 7,82 | 7,70 | — 0,12 | 9 2,85 | 1,00 | — 1,85 | 15 59,93 | 59,07 |
| 21 | 13 21,38 | 21,40 | + 0,02 | 109 55 54,25 | 50,90 | — 3,35 | 59,37 | 57,84 |
| 22 | 17 34,63 | 34,40 | — 0,23 | 42 21,28 | 18,70 | — 2,58 | 16 1,52 | 16 0,17 |
| 23 | 21 46,83 | 46,60 | — 0,23 | 28 24,67 | 24,60 | — 0,07 | 1,80 | 1,19 |
| 24 | 25 58,45 | 58,00 | — 0,45 | 14 5,85 | 8,90 | + 3,05 | 2,74 | 2,06 |
| 25 | 30 8,79 | 8,60 | — 0,19 | 108 59 28,16 | 32,10 | + 3,94 | 2,92 | |
| 26 | 34 18,46 | 18,40 | — 0,06 | 44 29,49 | 34,50 | + 5,01 | 15 59,00 | 15 58,02 |
| 27 | 38 27,78 | 27,50 | — 0,28 | 29 12,39 | 16,50 | + 4,11 | 16 2,28 | 58,97 |
| 28 | 42 36,22 | 35,70 | — 0,52 | 13 34,71 | 38,30 | + 3,59 | 2,05 | 16 1,00 |
| 29 | 46 43,54 | 43,10 | — 0,44 | 107 57 36,06 | 40,40 | + 4,34 | 5,32 | |
| 30 | 50 50,31 | 49,70 | — 0,61 | 41 21,06 | 23,20 | + 2,14 | 2,02 | 15 57,80 |
| 31 | | | | | | | 2,45 | |
| Feb. 1 | 59 0,80 | 0,50 | — 0,30 | 7 49,33 | 52,40 | + 3,07 | 2,08 | |
| 2 | 21 3 4,66 | 4,60 | — 0,06 | 106 50 35,36 | 39,60 | + 4,24 | 5,02 | 59,15 |
| 3 | 7 8,55 | 8,00 | — 0,55 | 33 6,15 | 9,10 | + 2,95 | 2,52 | |
| 4 | 11 10,75 | 10,60 | — 0,15 | 15 17,07 | 21,30 | + 4,23 | 1,62 | |
| 5 | 15 12,96 | 12,40 | — 0,56 | 105 57 18,11 | 16,70 | — 1,41 | 2,14 | |
| 6 | 19 13,84 | 13,30 | — 0,54 | 38 56,60 | 55,70 | — 0,90 | 1,00 | |
| 7 | 23 13,43 | 13,30 | — 0,13 | | | | 1,98 | |
| 8 | 27 12,69 | 12,60 | — 0,09 | 1 31,04 | 26,00 | — 5,04 | 3,30 | 16 4,07 |
| 9 | | | | 104 42 21,02 | 18,30 | — 2,72 | | 1,92 |

| 1837 | Right Ascension | | Error of Tables. | North Polar Distance | | Error of Tables. | Mean Semidiameter. | |
|---|---|---|---|---|---|---|---|---|
| | from observation. | from N. A. | | from observation. | from N. A. | | Horizontal. | Vertical. |
| | *h. m. s.* | *s.* | *″* | ° ′ ″ | *″* | *″* | ′ ″ | ′ ″ |
| Feb. 10 | 21 35 8,67 | 8,80 | + 0,13 | 104 22 51,27 | 55,80 | + 4,53 | 16 2,40 | |
| 11 | 39 5,92 | 5,70 | — 0,22 | 3 16,34 | 18,00 | + 1,66 | 1,27 | 16 3,24 |
| 12 | | | | 103 43 26,17 | 28,50 | + 2,33 | | 15 59,50 |
| 13 | 46 57,52 | 57,19 | — 0,33 | 23 19,59 | 24,60 | + 5,01 | 2,02 | 16 2,55 |
| 14 | 50 52,04 | 51,60 | — 0,44 | 3 1,25 | 7,80 | + 6,55 | 1,70 | 15 59,47 |
| 15 | 54 45,65 | 45,40 | — 0,25 | 102 42 33,40 | 38,50 | + 5,10 | 1,70 | 16 3,02 |
| 16 | 58 39,21 | 38,50 | — 0,71 | 21 56,40 | 57,00 | + 0,60 | 1,44 | 15 59,15 |
| 17 | 22 2 31,79 | 30,90 | — 0,89 | 1 2,63 | 3,90 | + 1,27 | 2,90 | 16 1,15 |
| 18 | 6 23,08 | 22,20 | — 0,88 | 101 39 58,03 | 59,50 | + 1,47 | 0,86 | 1,67 |
| 19 | 10 13,54 | 13,10 | — 0,44 | 18 43,42 | 44,10 | + 0,68 | 2,58 | 4,00 |
| 20 | 14 3,94 | 3,30 | — 0,64 | 100 57 14,04 | 18,00 | + 3,96 | 1,52 | |
| 21 | 17 53,19 | 52,80 | — 0,39 | 35 41,40 | 42,10 | + 0,70 | 3,00 | 0,68 |
| 24 | | | | | | | 0,35 | |
| 25 | | | | | | | 2,20 | |
| 26 | 36 51,43 | 51,10 | — 0,33 | 98 45 19,56 | 23,50 | + 3,94 | 4,76 | |
| 27 | 40 37,34 | 37,10 | — 0,24 | 22 50,37 | 54,70 | + 4,33 | 1,40 | 0,92 |
| 28 | 44 22,94 | 22,70 | — 0,24 | 0 15,85 | 18,40 | + 2,55 | 1,70 | 15 59,84 |
| Mar. 1 | 48 7,99 | 7,80 | — 0,19 | 97 37 33,63 | 35,10 | + 1,47 | 15 55,37 | 16 0,81 |
| 2 | 52 52,19 | 52,30 | + 0,11 | 14 44,47 | 45,20 | + 0,73 | 57,38 | 15 57,64 |
| 3 | 55 36,17 | 36,30 | + 0,13 | 96 51 51,38 | 48,90 | — 2,48 | 59,08 | 16 3,67 |
| 4 | 59 19,70 | 19,80 | + 0,10 | 28 46,86 | 46,90 | + 0,04 | 16 0,99 | 2,61 |
| 5 | 23 3 2,83 | 2,80 | — 0,03 | 5 39,77 | 39,40 | — 0,37 | 1,20 | |
| 6 | 6 45,61 | 45,40 | — 0,21 | 95 42 26,66 | 26,70 | + 0,04 | 15 58,74 | 1,62 |
| 7 | 10 27,32 | 27,40 | + 0,08 | 19 11,27 | 9,40 | — 1,87 | 16 1,90 | 15 57,75 |
| 8 | 14 9,22 | 9,20 | — 0,02 | 94 55 52,63 | 47,90 | — 4,73 | 0,04 | 16 1,50 |
| 9 | 17 50,52 | 50,60 | + 0,08 | 32 23,38 | 22,60 | — 0,78 | 2,34 | 3,07 |
| 10 | 21 31,50 | 31,60 | + 0,10 | 8 55,18 | 53,90 | — 1,28 | 1,80 | 4,78 |
| 11 | 25 12,64 | 12,40 | — 0,24 | 93 45 20,21 | 22,30 | + 2,09 | 1,58 | 15 59,45 |
| 12 | 28 52,29 | 52,60 | + 0,31 | 21 42,75 | 48,10 | + 5,35 | 2,58 | 16 1,28 |
| 13 | 32 32,85 | 32,60 | — 0,25 | 92 58 9,92 | 11,70 | + 1,78 | 2,47 | 15 58,46 |
| 14 | | | | 34 31,86 | 33,40 | + 1,54 | 0,50 | 59,66 |
| 15 | | | | 10 53,36 | 53,70 | + 0,34 | 3,37 | 59,74 |
| 16 | | | | 91 47 10,81 | 12,90 | + 2,09 | 2,05 | 16 1,47 |
| 17 | 47 9,35 | 9,80 | + 0,45 | 23 29,01 | 31,40 | + 2,39 | 0,98 | 0,62 |
| 18 | | | | 90 59 47,86 | 49,60 | + 1,74 | 15 59,45 | |
| 19 | | | | 36 14,59 | 7,80 | — 6,79 | 16 1,48 | 15 59,62 |
| 20 | | | | 12 29,46 | 26,30 | — 3,16 | 2,82 | 16 1,84 |
| 21 | | | | 89 48 45,32 | 45,50 | + 0,18 | 15 55,82 | |
| 22 | | | | 25 5,56 | 6,00 | + 0,44 | 16 1,88 | 1,15 |
| 23 | 0 8 59,74 | 59,70 | — 0,04 | 1 24,70 | 26,70 | + 2,00 | 1,40 | 0,37 |
| 24 | 12 37,77 | 37,70 | — 0,07 | 88 37 47,97 | 51,00 | + 3,03 | 15 59,34 | 15 59,86 |
| 25 | 14 15,17 | 15,60 | + 0,43 | 14 12,12 | 16,20 | + 4,08 | 16 0,68 | |
| 26 | | | | 87 50 44,10 | 43,80 | — 0,30 | 1,44 | |
| 27 | 23 31,73 | 31,40 | — 0,33 | 27 13,12 | 14,00 | + 0,88 | 0,87 | 16 1,30 |
| 28 | 27 8,95 | 9,30 | + 0,35 | 3 45,31 | 47,30 | + 1,99 | 0,84 | 2,84 |
| 29 | 30 46,71 | 47,30 | + 0,59 | 86 40 21,81 | 23,70 | + 1,89 | 0,48 | 1,32 |
| 30 | 34 25,55 | 25,40 | — 0,15 | 17 4,74 | 4,00 | — 0,74 | 1,25 | 15 58,95 |
| 31 | 38 3,24 | 3,50 | + 0,26 | 85 53 47,78 | 48,20 | + 0,42 | 1,97 | 59,87 |
| April 1 | 41 41,90 | 41,60 | — 0,30 | 30 33,72 | 36,80 | + 3,08 | | |
| 2 | 45 19,99 | 20,00 | + 0,01 | 7 33,40 | 30,10 | — 3,30 | 0,64 | |
| 3 | 48 58,45 | 58,50 | + 0,05 | 84 44 34,53 | 28,50 | — 6,03 | 0,35 | 16 1,40 |

| 1837 | Right Ascension | | Error of Tables. | North Polar Distance | | Error of Tables. | Mean Semidiameter. | |
|---|---|---|---|---|---|---|---|---|
| | from observation. | from N. A. | | from observation. | from N. A. | | Horizontal. | Vertical. |
| | h. m. s. | s. | s | ° ′ ″ | ″ | ″ | ″ ′ | ′ ″ |
| April 4 | | | | 84 21 37,58 | 32,50 | —5,08 | 16 0,77 | 16 2,02 |
| 5 | | | | 83 58 41,87 | 42,40 | +0,53 | 15 59,50 | 4,15 |
| 6 | | | | 36 0,39 | 58,50 | —1,89 | 59,20 | 3,68 |
| 7 | 1 3 33,78 | 33,90 | +0,12 | 13 21,02 | 21,00 | —0,02 | 59,80 | |
| 8 | 7 13,40 | 13,20 | —0,20 | 82 50 49,49 | 50,60 | +1,11 | 16 0,37 | 3,24 |
| 9 | 10 52,96 | 52,90 | —0,06 | 28 26,31 | 27,50 | +1,19 | 1,96 | |
| 11 | 18 12,83 | 12,80 | —0,03 | 81 44 5,52 | 4,70 | —0,82 | 1,43 | 15 58,84 |
| 12 | 21 52,92 | 53,20 | +0,28 | 22 6,05 | 5,70 | —0,35 | 2,00 | 16 0,85 |
| 13 | 25 33,83 | 33,80 | —0,03 | 0 17,62 | 15,50 | —2,12 | 0,60 | 15 58,22 |
| 14 | 29 15,06 | 14,70 | —0,36 | 80 38 38,25 | 34,20 | —4,05 | 0,90 | 58,44 |
| 15 | 32 55,94 | 55,90 | —0,04 | 17 4,54 | 2,30 | —2,24 | 1,62 | 57,18 |
| 16 | | | | 79 55 44,21 | 40,30 | —3,91 | 0,28 | 16 2,16 |
| 17 | 40 19,31 | 19,50 | +0,19 | 34 33,32 | 28,40 | —4,92 | 15 59,84 | 2,38 |
| 18 | 44 2,02 | 1,80 | —0,22 | 13 25,28 | 26,70 | +1,42 | 16 1,57 | 0,95 |
| 19 | 47 44,38 | 44,50 | +0,12 | 78 52 28,82 | 35,80 | +6,98 | 4,45 | 15 58,25 |
| 20 | 51 27,87 | 27,60 | —0,27 | 31 53,18 | 55,80 | +2,62 | 2,18 | 16 1,02 |
| 21 | 55 11,20 | 11,20 | 0,00 | 11 26,64 | 27,10 | +0,46 | 0,15 | 15 59,62 |
| 22 | 58 55,42 | 55,10 | —0,32 | 77 52 6,64 | 10,00 | +3,36 | 1,42 | 16 0,87 |
| 23 | 2 2 39,60 | 39,60 | 0,00 | 32 4,97 | 4,60 | —0,37 | 2,07 | 15 58,43 |
| 24 | 6 24,63 | 24,50 | —0,13 | 11 11,68 | 11,50 | —0,18 | 0,90 | 16 0,68 |
| 25 | 10 10,23 | 9,90 | —0,33 | 76 51 32,63 | 30,90 | —1,73 | 1,26 | 15 59,71 |
| 26 | 13 55,95 | 55,80 | —0,15 | 32 2,22 | 3,00 | +0,78 | 1,70 | 16 0,34 |
| 27 | 17 42,43 | 42,10 | —0,33 | 12 48,79 | 48,10 | —0,69 | 0,97 | 1,44 |
| 28 | 21 29,50 | 29,10 | —0,40 | 75 53 46,03 | 46,70 | +0,67 | 1,30 | 15 59,97 |
| 29 | 25 17,16 | 16,60 | —0,56 | 35 1,97 | 59,00 | —2,97 | 0,24 | 59,87 |
| 30 | 29 4,70 | 4,60 | —0,10 | 16 26,24 | 25,70 | —0,54 | 2,32 | 59,08 |
| May 1 | 32 53,35 | 53,10 | —0,25 | 74 58 11,16 | 6,60 | —4,56 | 2,18 | 16 0,33 |
| 2 | 36 42,35 | 42,20 | —0,15 | 40 1,39 | 2,30 | +0,91 | 0,92 | 1,64 |
| 3 | 40 32,24 | 31,90 | —0,34 | 22 10,71 | 13,10 | +2,39 | 0,92 | 1,86 |
| 4 | 44 22,34 | 22,20 | —0,14 | 4 34,51 | 39,30 | +4,79 | 0,95 | 1,44 |
| 5 | | | | 73 47 17,31 | 21,30 | +3,99 | 16 1,40 | 15 59,56 |
| 6 | | | | 30 15,14 | 19,40 | +4,26 | 15 59,54 | 16 0,72 |
| 8 | | | | 72 57 0,56 | 5,00 | +4,44 | 16 1,10 | 15 57,56 |
| 9 | | | | 40 49,11 | 53,30 | +4,19 | 0,60 | 16 1,00 |
| 10 | 3 7 35,42 | 35,40 | —0,02 | 24 56,36 | 58,90 | +2,54 | 1,98 | |
| 11 | 11 29,69 | 29,40 | —0,29 | 9 20,37 | 22,30 | +1,93 | 1,37 | 0,24 |
| 12 | 15 24,40 | 24,10 | —0,30 | 71 54 2,65 | 3,60 | +0,95 | 0,46 | 1,95 |
| 13 | | | | 39 2,27 | 3,30 | +1,03 | 1,90 | |
| 14 | | | | 24 19,24 | 21,50 | +2,26 | | |
| 15 | | | | 9 56,97 | 58,60 | +1,63 | 2,05 | |
| 16 | | | | 70 55 53,51 | 54,80 | +1,29 | 0,64 | |
| 17 | | | | 42 7,03 | 10,40 | +3,37 | | |
| 18 | | | | 28 52,05 | 45,50 | —6,55 | 15 59,62 | |
| 23 | | | | 69 26 43,39 | 43,10 | —0,29 | | |
| 24 | 4 3 4,28 | 3,90 | —0,38 | 15 19,85 | 20,70 | +0,85 | 16 2,56 | |
| 25 | 7 6,37 | 5,80 | —0,57 | 4 18,85 | 19,50 | +0,65 | 1,82 | 4,10 |
| 28 | | | | 68 33 20,71 | 25,60 | +4,89 | 0,48 | |
| 29 | | | | | | | 2,78 | |
| 30 | 27 23,03 | 22,70 | —0,33 | | | | 2,47 | |
| 31 | 31 27,76 | 27,50 | —0,26 | 5 45,45 | 51,30 | +5,85 | | |
| June 1 | | | | 67 57 27,01 | 25,10 | —1,91 | 1,04 | |

| 1837 | Right Ascension | | Error of Tables. | North Polar Distance | | Error of Tables. | Mean Semidiameter. | |
|---|---|---|---|---|---|---|---|---|
| | from observation. | from N. A. | | from observ ation | from N. A. | | Horizontal. | Vertical. |
| | h. m. s. | s. | s | ° ′ ″ | ″ | ″ | ″ ′ | ′ ″ |
| June 2 | 4 39 38,21 | 38,30 | +0,09 | 67 49 18,24 | 21,90 | +3,66 | 16 0,82 | |
| 3 | | | | 41 42,13 | 41,90 | —0,23 | 1,02 | |
| 4 | | | | 34 20,93 | 25,20 | +4,27 | 1,37 | |
| 5 | 4 51 57,48 | 57,70 | +0,22 | 27 30,29 | 32,20 | +1,91 | 1,06 | 15 58,87 |
| 6 | 56 4,75 | 4,80 | +0,05 | 20 59,23 | 2,70 | +3,47 | 2,22 | |
| 7 | 5 0 12,30 | 12,30 | 0,00 | 14 54,06 | 57,10 | +3,04 | 1,35 | |
| 8 | 4 20,40 | 20,00 | —0,40 | 9 13,66 | 15,40 | +1,74 | 1,66 | 58,76 |
| 9 | 8 28,32 | 27,90 | —0,42 | 3 55,99 | 57,90 | +1,91 | 4,40 | |
| 10 | 12 36,58 | 36,20 | —0,38 | 66 59 5,40 | 4,60 | —0,80 | 1,66 | |
| 11 | 16 45,11 | 44,60 | —0,51 | 54 34,62 | 35,60 | +0,98 | 3.54 | |
| 12 | 20 53,30 | 53,30 | 0,00 | 50 33,05 | 31,10 | —1,95 | 2,82 | |
| 13 | 25 2,12 | 2,10 | —0,02 | 46 44,64 | 51,00 | +6,36 | 1,75 | |
| 14 | 25 10,98 | 11,00 | +0,02 | 43 36,19 | 35,10 | —1,09 | 0,86 | |
| 15 | 33 20,60 | 20,20 | —0,40 | 30 43,80 | 44,40 | +0,60 | 0,57 | |
| 16 | 37 29,79 | 29,40 | —0,39 | 38 15,72 | 18,20 | +2,48 | 0,02 | |
| 17 | 41 38,61 | 38,70 | +0,09 | 36 14,74 | 16,50 | +1,76 | 0,72 | |
| 18 | | | | 34 33,70 | 39,60 | +5,90 | 15 59,84 | |
| 19 | | | | 33 26,08 | 27,50 | +1,42 | 16 3,54 | |
| 22 | 6 2 25,94 | 26,20 | +0,26 | 32 17,08 | 19,20 | +2,12 | 2,52 | |
| 23 | 6 35,60 | 35,60 | 0,00 | 32 44,25 | 46,00 | +1,75 | 0,75 | |
| 24 | 10 44,76 | 45.10 | +0,34 | 33 30,50 | 37,60 | | 15 59,50 | |
| 25 | 14 54,20 | 54.40 | +0,20 | 34 55,90 | 54,00 | —1,90 | 16 1,22 | |
| 26 | 19 3,92 | 3,60 | —0,33 | 36 31,31 | 35,10 | +3,79 | 0,75 | |
| 27 | 23 12,43 | 12,90 | +0,47 | 38 41,04 | 40,80 | —0,24 | 16 0,88 | |
| 29 | 31 30,61 | 30,80 | +0,19 | 44 2.47 | 6,20 | +3,73 | 15 59,95 | |
| 30 | 35 39,58 | 39,40 | —0,18 | 47 24.98 | 25,70 | +0,72 | 57,82 | |
| July 1 | | | | 51 11,67 | 9,70 | —1,97 | 59,20 | |
| 2 | | | | 55 20,18 | 18,00 | —2,18 | 59,95 | |
| 3 | 48 4,92 | 4,00 | —0,92 | | | | 15 58,58 | |
| 4 | | | | 67 4 46,40 | 47,00 | +0,60 | 16 0,12 | |
| 5 | | | | 10 6,79 | 8,60 | +1,81 | 16 0,70 | |
| 6 | | | | 15 52,86 | 52,00 | —0,86 | 15 59,95 | |
| 7 | | | | 22 1,37 | 0,10 | —1,27 | 16 0,92 | |
| 8 | 7 8 39,58 | 39,00 | —0,58 | 28 23,87 | 32,90 | | 0,86 | |
| 9 | 12 44,99 | 44,80 | —0,19 | 35 26,79 | 27,00 | +0,21 | 1,35 | |
| 10 | 16 50,15 | 50,30 | +0,15 | 42 39.51 | 45,40 | +5,89 | 1,77 | |
| 11 | 20 55,43 | 55,30 | —0,13 | 50 28.30 | 26.80 | —1,50 | 1,30 | |
| 12 | 24 59,84 | 59,80 | —0,04 | 58 25,29 | 30,90 | +5,61 | 2,45 | |
| 13 | 28 4,62 | 3,90 | —0,72 | 68 6 52,95 | 57,80 | +4,85 | | |
| 14 | 33 8,11 | 7,50 | —0,61 | 15 38,20 | 47,10 | | 15 59,34 | |
| 15 | 37 11,58 | 10,70 | —0,88 | 24 58,01 | 58,60 | +0,59 | 16 1,44 | |
| 16 | 41 13,36 | 13,30 | —0,06 | 34 25,74 | 32,10 | | 1,12 | |
| 17 | | | | 44 25,30 | 27,40 | +2,10 | | |
| 18 | 49 17,40 | 16,90 | —0,50 | 54 35.59 | 44,30 | | 15 59,50 | |
| 19 | 53 18,52 | 18,00 | —0,52 | 69 5 21,21 | 22,60 | +1,39 | 16 2,30 | |
| 20 | 57 18,51 | 18,40 | —0,11 | | | | | |
| 23 | 8 9 16,77 | 16,50 | —0,27 | 51 28,40 | 25,00 | —3,40 | 1,06 | |
| 24 | | | | 70 3 48,69 | 47,90 | —0,79 | 0,08 | |
| 25 | | | | 16 24,97 | 29,90 | +4,93 | | |
| 27 | | | | 42 54,41 | 51,80 | —2,61 | | |
| 28 | 29 3,04 | 2,30 | —0,74 | 56 29,16 | 22,20 | +3,04 | 0,37 | |

| 1837 | Right Ascension | | Error of Tables. | North Polar Distance | | Error of Tables. | Mean Semidiameter. | |
|---|---|---|---|---|---|---|---|---|
| | from observation. | from N. A. | | from observation. | from N. A. | | Horizontal. | Vertical. |
| | *h. m. s.* | *s.* | *s* | ° ′ ″ | ″ | ″ | ′ ″ | |
| July 29 | | | | 71 10 34,87 | 32,60 | — 2,27 | 16 1,62 | |
| 30 | | | | 24 47,94 | 50,60 | + 2,66 | 2,14 | |
| 31 | | | | 39 26.92 | 26,10 | — 0,82 | 16 2,27 | |
| Aug. 2 | 48 34,21 | 33,70 | — 0,51 | 72 9 30,94 | 33,10 | + 2,16 | 15 59,56 | |
| 3 | | | | | | | 15 59.07 | |
| 5 | | | | 56 53,21 | 54,00 | + 0,79 | 16 0,70 | |
| 7 | 9 7 49,62 | 49,40 | — 0,22 | 73 29 50,51 | 51,20 | + 0,69 | 0,82 | |
| 9 | 15 27,73 | 27,50 | — 0,23 | 74 3 53,13 | 52,10 | — 1,03 | 1,50 | |
| 10 | 19 16,00 | 15,70 | — 0,30 | 21 13.34 | 16,60 | + 3,26 | 1,24 | |
| 11 | 23 3,65 | 3,30 | — 0.35 | 38 55,51 | 54,10 | — 1,41 | 0,95 | |
| 12 | 26 50,67 | 50,20 | — 0,47 | 56 50,33 | 47,30 | — 3,03 | 1,06 | |
| 13 | 30 36,80 | 36,70 | — 0,10 | 75 15 1,03 | 54 90 | | 16 0,20 | |
| 20 | | | | 77 28 1,20 | 4,80 | + 3,60 | 15 58,74 | |
| 21 | 10 0 29,38 | 28,90 | — 0,48 | | | | | |
| 22 | 4 10,69 | 10,80 | + 0,11 | 78 7 54,37 | 59,80 | + 5,43 | 16 0,64 | |
| 23 | 7 52,48 | 52,20 | — 0,28 | 28 9,16 | 13,50 | + 4,34 | 16 0,24 | |
| 24 | 11 33,31 | 33,20 | — 0,11 | 48 38,59 | 40,30 | + 1,71 | 15 59,84 | |
| 25 | | | | 79 9 13,15 | 16,90 | + 3,75 | 15 59,12 | |
| 28 | 26 13,48 | 13,40 | — 0,08 | | | | 16 0,64 | |
| 29 | 29 52,51 | 52,50 | — 0,01 | 33 22,19 | 24,80 | + 2,61 | 1,44 | |
| 30 | | | | 54 55,36 | 50,50 | — 4,86 | 0,28 | |
| 31 | | | | 81 16 20,96 | 24,90 | + 3,94 | 16 0,55 | |
| Sep. 1 | | | | 38 7,20 | 7,70 | + 0,50 | 15 59,92 | |
| 2 | | | | 59 56,01 | 57,60 | + 1,59 | | |
| 4 | | | | 82 44 0,57 | 2,00 | + 1,43 | 16 1,10 | |
| 5 | | | | 83 6 11,36 | 15,00 | + 3,64 | 16 2,98 | |
| 6 | | | | 28 42.06 | 35,70 | | 15 58,65 | |
| 7 | | | | 50 57,29 | 0,80 | + 3,51 | 16 1.80 | |
| 8 | | | | 84 13 32,39 | 33,00 | + 0,61 | 15 59,64 | |
| 9 | 11 9 43,18 | 42,70 | — 0,48 | 36 11,18 | 11,90 | + 0,72 | 15 59,70 | |
| 10 | | | | 58 57,69 | 53,90 | — 3,79 | 16 2,20 | |
| 11 | | | | 85 21 44,47 | 42,00 | — 2,47 | 15 59,82 | |
| 12 | 11 20 30,11 | 30,00 | — 0,11 | 44 40,46 | 35,80 | — 4,66 | 16 0,86 | |
| 13 | 24 5,72 | 5,50 | — 0,22 | 86 7 32,11 | 32,10 | — 0,01 | 0,60 | |
| 14 | 27 41,20 | 40,90 | — 0,30 | 30 36,22 | 33,40 | — 2,82 | 1,17 | |
| 15 | 31 16,69 | 16,40 | — 0,29 | 53 37,86 | 38,40 | + 0,54 | 0,52 | |
| 16 | 34 51,78 | 51,70 | — 0,08 | 87 16 48,83 | 47,00 | — 1,83 | 0,37 | |
| 17 | 38 27,60 | 27,00 | — 0,60 | 39 55,75 | 58,70 | + 2,95 | 1,15 | |
| 18 | 42 2,70 | 2,40 | — 0,30 | 88 3 11,53 | 13 30 | + 1,77 | 0,66 | |
| 19 | 45 37,76 | 37,80 | + 0,04 | 26 31,04 | 31,60 | + 0,56 | 1,37 | |
| 20 | 49 13,46 | 13,20 | — 0,26 | 49 51,21 | 50,20 | — 1,01 | 0,20 | |
| 21 | 52 48,59 | 48,70 | + 0,11 | 89 13 14,71 | 12,60 | — 2,11 | 0,22 | |
| 22 | 56 24,38 | 24,20 | — 0,18 | 36 39,94 | 34,70 | — 5,24 | 16 0,77 | |
| 23 | 12 0 0,02 | 0.00 | — 0,02 | 90 0 2,65 | 59,10 | — 3,55 | 15 59,77 | |
| 24 | 3 35,65 | 35,90 | + 0,25 | 23 29,99 | 24,30 | — 5.69 | 16 1,44 | |
| 25 | 7 12,08 | 11,80 | — 0,28 | 46 51.60 | 50,30 | — 1,30 | 16 0,55 | |
| 26 | 10 48,25 | 48,10 | — 0.15 | 91 10 17,76 | 16,20 | — 1,56 | 15 59.97 | |
| 27 | 12 14 24,73 | 24,50 | — 0,23 | 33 41.44 | 42,20 | + 0,76 | 16 1,06 | |
| 28 | 18 1,04 | 1,00 | — 0,04 | 57 11,49 | 7,70 | — 3,79 | | |
| Oct. 5 | | | | 94 40 21,17 | 19,50 | — 1,67 | 0.22 | |
| 6 | | | | 95 3 31,37 | 27,10 | — 4,27 | 0,48 | |

| 1837 | Right Ascension | | Error of Tables. | North Polar Distance | | Error of Tables. | Mean Semidiameter. | |
|---|---|---|---|---|---|---|---|---|
| | from Observation | from N. A. | | from observation. | from N. A. | | Horizontal. | Vertical. |
| | *h. m. s.* | *s.* | *s* | ° ′ ″ | ″ | ″ | ′ ″ | |
| Oct. 7 | | | | 95 25 34,32 | 30,90 | — 3,42 | 16 0,57 | |
| 9 | | | | 96 12 34,75 | 25,30 | | 1,12 | |
| 10 | 13 1 43,52 | 43,10 | — 0,42 | 35 18,17 | 15,00 | — 3,17 | 16 0,28 | |
| 11 | | | | 57 58,43 | 59,30 | + 0,87 | 15 59,68 | |
| 12 | 9 6,76 | 5,50 | — 1,26 | 97 20 41,73 | 37,80 | — 3,93 | 16 1,90 | |
| 13 | 12 47,81 | 47,40 | — 0,41 | 43 5,97 | 10,30 | + 4,33 | 0,92 | |
| 14 | 16 30,42 | 29,80 | — 0,62 | 98 1 34,99 | 36,40 | + 1,41 | 0,22 | |
| 16 | 23 56,83 | 56,50 | — 0,33 | 50 4,12 | 8,20 | + 4,08 | | |
| 17 | | | | 99 12 7,14 | 12,90 | + 5,76 | 15 59,12 | |
| 18 | | | | 34 9,93 | 9,60 | — 0,33 | 15 59,42 | |
| 21 | | | | 100 39 14,10 | 10,10 | — 4,00 | 16 0,92 | |
| 22 | | | | 101 0 36,05 | 31,60 | — 4,45 | 1,15 | |
| 23 | | | | 21 38,86 | 43,30 | + 4,44 | 15 59,84 | |
| 24 | | | | 42 48,59 | 45,10 | — 3,49 | 15 59,42 | |
| 25 | | | | 102 3 35,41 | 36,20 | + 0,79 | 16 0,60 | |
| Nov. 6 | | | | 105 57 35,31 | 30,70 | — 4,61 | 15 58,18 | |
| 13 | | | | 107 56 52,56 | 55,40 | + 2,84 | 15 59,58 | |
| 19 | | | | 108 54 43,63 | 10,50 | | 16 2,56 | |
| 21 | 15 46 13,36 | 13,30 | — 0,06 | | | | | |
| 24 | | | | 110 32 55,07 | 49,20 | | 16 0,30 | |
| 25 | | | | 44 54,35 | 49,70 | — 4,65 | | |
| 26 | | | | 56 25,09 | 26,90 | + 1,81 | 15 59,56 | |
| 27 | 11 39,48 | 38,70 | — 0,78 | 111 7 44,51 | 40,50 | — 4,01 | | |
| 29 | | | | 28 55,64 | 55,80 | + 0,16 | 16 0,48 | |
| 30 | | | | 38 59,22 | 56,90 | — 2,32 | 15 59,75 | |
| Dec. 1 | | | | 48 35,62 | 33,20 | — 2,42 | | |
| 2 | | | | 57 46,46 | 44,20 | — 2,26 | 16 0,84 | |
| 10 | | | | 112 55 35,78 | 35,00 | — 0,78 | 15 58,98 | |
| 11 | | | | 113 0 53,21 | 48,50 | — 4,71 | 16 0,00 | |
| 14 | | | | 13 42,49 | 44,40 | + 1,91 | 15 59,92 | |
| 15 | | | | 17 6,12 | 7,70 | + 1,58 | 16 1,75 | |
| 16 | | | | 19 59,82 | 3,10 | + 3,28 | 16 1,08 | |
| 19 | 17 47 55,27 | 55,00 | — 0,27 | 27 59,57 | 1,10 | + 1,53 | 15 58,90 | |
| 20 | 52 21,83 | 21,60 | — 0,23 | 27 4,85 | 4,10 | — 0,75 | 15 59,38 | |
| 21 | 56 48,22 | 48,20 | — 0,02 | 27 35,43 | 38,70 | + 3,27 | | |
| 22 | | | | 27 51,48 | 45,00 | | | |
| 23 | | | | 27 24,09 | 23,00 | — 1,09 | | |
| 24 | 18 10 8,56 | 8,40 | — 0,16 | 26 32,87 | 32,50 | — 0,37 | | |
| 25 | 14 35,43 | 35,20 | — 0,23 | | | | | |
| 26 | 19 2,04 | 1,70 | — 0,34 | 23 26,43 | 26,70 | + 0,27 | | |
| 27 | 23 28,67 | 28,10 | — 0,57 | 21 9,34 | 11,40 | + 2 06 | | |
| 28 | 27 55,39 | 54,50 | — 0,89 | | | | | |
| 29 | 32 21,35 | 20,80 | — 0,55 | 15 15,39 | 16,40 | + 1,01 | | |
| 30 | | | | 11 34,39 | 36,70 | + 2,31 | | |
| 31 | | | | 7 32,70 | 29,10 | — 3,60 | | |

In conformity with the plan followed in former volumes, I have here computed the value of the Mean Semidiameter of the Sun, from the observed transits—not that I have ever for a moment expected to obtain a very accurate determination by this means,—but rather from a desire of tracing the changes, if any, which might result in the method of estimating time from continued practice: the result has been simply this,—that the observer who at first observed a larger diameter than myself, has, after two or three years practice in observing, continued to observe the same larger diameter; and another Assistant who appeared to note the Diameter in defect, has continued to do so: Among the circle observations too, there appears to be the same cause in operation,—each observer either sees the Sun under a different angle, or forms a different judgment with regard to his being in contact with the wire; the results altogether are as follows—

| | | Sun's Mean Semidiameter. Horizontal. | Vertical. |
|---|---|---|---|
| | | ′ ″ | ′ ″ |
| From 965 Observations in former years | = ——— | 16 1,48 | |
| 141 ——— ——— | = ——— | | 16 1,59 |
| 489 ——— 1836 and 1837 | = ——— | 1,72 | |
| 150 ——— ——— | = ——— | | 0,77 |

Selecting from the above observations those made near to the Solstices, we will proceed to compute the value of the Obliquity of the Ecliptic—

*Observations of the Sun made near to the Summer Solstices of* 1836 *and* 1837 *applied to the determination of the Obliquity of the Ecliptic.*

| 1836 | N. P. D. | Reduction. | ⊙'s Lat. | Solsticial N. P. D. | Correction for ☽ r Nut. | Correction for ⊙ r Nut. $+\frac{t.\ 0'',46}{365}$ | Mean Solsticial N. P. D. Reduced to Jan. 1. |
|---|---|---|---|---|---|---|---|
| | ° ′ ″ | ° ′ ″ | ″ | ° ′ ″ | ″ | ″ | ° ′ ″ |
| May 21 | 69 47 33,68 | 3 15 16,70 | +0,93 | 66 32 17,91 | +6,05 | —0,51 | 66 32 23,45 |
| 22 | 69 35 33,21 | 3 3 16,46 | 0,95 | 17,70 | ,06 | ,52 | 23,24 |
| 23 | 69 23 51,81 | 2 51 38,46 | 0,93 | 13,28 | ,06 | ,53 | 18,81 |
| 24 | 69 12 34,03 | 2 40 20,18 | 0,89 | 14,74 | ,07 | ,53 | 20,28 |
| 25 | 69 1 35,19 | 2 29 24,62 | 0,81 | 11,38 | ,08 | ,54 | 16,92 |
| 26 | 68 51 1,85 | 2 18 49,76 | 0,72 | 12,81 | ,09 | ,55 | 18,35 |
| 28 | 68 30 58,41 | 1 58 47,03 | 0,48 | 11,86 | ,09 | ,57 | 17,38 |
| 30 | 68 12 25,59 | 1 40 13,33 | 0,21 | 12,47 | ,10 | ,58 | 17,99 |
| 31 | 68 3 44,01 | 1 31 30,50 | 0,09 | 13,60 | ,11 | ,60 | 19,11 |
| June 1 | 67 55 23,69 | 1 23 9,60 | —0,02 | 14,07 | ,12 | ,61 | 19,58 |
| 6 | 67 19 31,42 | 0 47 18,15 | 0,19 | 13,08 | ,17 | ,67 | 18,58 |
| 7 | 67 13 31,71 | 0 41 18,70 | 0,13 | 12,88 | ,18 | ,68 | 18,38 |
| 8 | 67 7 53,48 | 0 35 42,88 | 0,04 | 10,56 | ,19 | ,69 | 16,06 |
| 9 | 67 2 45,78 | 0 30 31,00 | +0,05 | 14,83 | ,20 | ,71 | 20,32 |
| 10 | 66 58 0,04 | 0 25 43,39 | 0,18 | 16,83 | ,20 | ,71 | 22,32 |
| 11 | 66 53 35,48 | 0 21 20,24 | 0,30 | 15,54 | ,21 | ,72 | 21,03 |

| 1836 | N. P. D. | Reduction. | ☉'s Lat. | Solsticial N. P. D. | Correction for ☽ r Nut. | Correction for ☉ r Nut. $+\frac{t.\ 0'',46}{365}$ | Mean Solsticial N. P. D. Reduced to Jan. 1 |
|---|---|---|---|---|---|---|---|
| | ° ′ ″ | ° ′ ″ | ″ | ° ′ ″ | ″ | ″ | ° ′ ″ |
| June 12 | 66 49 34,49 | 0 17 20,82 | +0,43 | 66 32 14,10 | +6,22 | —0,72 | 66 32 19,60 |
| 13 | 66 46 2,33 | 0 13 46,15 | ,56 | 15,74 | ,23 | ,73 | 21,24 |
| 15 | 66 40 2,00 | 0 7 51,77 | ,78 | 11,01 | ,24 | ,74 | 16,51 |
| 16 | 66 37 45,86 | 0 5 31,20 | ,85 | 15,51 | ,25 | ,74 | 21,02 |
| 17 | 66 35 48,77 | 0 3 35,42 | ,89 | 14,24 | ,26 | ,75 | 19,75 |
| 18 | 66 34 18,84 | 0 2 4,43 | ,92 | 15,33 | ,26 | ,75 | 20,84 |
| 19 | 66 33 11,35 | 0 0 58,40 | ,91 | 13,86 | ,27 | ,75 | 19,38 |
| 20 | 66 32 32,33 | 0 0 16,83 | ,87 | 16,37 | ,27 | ,75 | 21,89 |
| 28 | 66 41 53,58 | 0 9 38,20 | — ,04 | 15,34 | ,31 | ,76 | 20,92 |
| July 2 | 66 56 23,07 | 0 24 8,50 | ,27 | 14,30 | ,33 | ,74 | 19,89 |
| 9 | 67 37 11,21 | 1 4 57,63 | + ,34 | 13,92 | ,36 | ,68 | 19,60 |
| 10 | 67 44 33,17 | 1 12 21,32 | ,47 | 12,32 | ,36 | ,67 | 18,01 |
| 14 | 68 17 54,87 | 1 45 46,15 | ,82 | 9,54 | ,38 | ,65 | 15,27 |
| 15 | 68 27 13,12 | 1 55 2,56 | ,85 | 11,41 | ,38 | ,64 | 17,15 |
| 16 | 68 36 55,13 | 2 4 42,26 | ,84 | 13,71 | ,39 | ,61 | 19,49 |
| 17 | 68 46 53,39 | 2 14 42,40 | ,80 | 11,79 | ,39 | ,60 | 17,58 |
| 19 | 69 8 2,44 | 2 35 48,40 | ,65 | 14,69 | ,41 | ,58 | 20,52 |
| 20 | 69 19 8,42 | 2 46 54,97 | ,54 | 13,99 | ,42 | ,57 | 19,84 |
| 1837 | | | | | | | |
| May 24 | 69 15 19,85 | 2 43 4,29 | —0,30 | 66 32 15,26 | +7,97 | —0,53 | 66 32 22,70 |
| 25 | 69 4 18,85 | 2 32 2,59 | —0,29 | 15,97 | 7,97 | ,54 | 23,40 |
| 31 | 68 5 45,45 | 1 33 36,11 | +0,27 | 9,61 | 8,01 | ,60 | 17,02 |
| June 2 | 67 49 18,24 | 1 17 8,00 | ,53 | 10,77 | ,02 | ,62 | 18,17 |
| 5 | 67 27 30,29 | 0 55 18,53 | ,82 | 12,58 | ,03 | ,66 | 19,95 |
| 6 | 67 20 59,23 | 0 48 48,88 | ,86 | 11,21 | ,03 | ,67 | 18,57 |
| 7 | 67 14 54,06 | 42 43,15 | ,89 | 11,80 | ,03 | ,68 | 19,15 |
| 8 | 67 9 13,66 | 37 1,03 | ,87 | 13,50 | ,04 | ,69 | 20,85 |
| 9 | 67 3 55,99 | 31 43,60 | ,83 | 13,22 | ,04 | ,71 | 20,55 |
| 10 | 66 59 5,40 | 26 50,27 | ,77 | 15,90 | ,04 | ,71 | 23,23 |
| 11 | 66 54 34,62 | 22 21,10 | ,67 | 14,19 | ,04 | ,72 | 21,51 |
| 12 | 66 50 33,05 | 18 16,87 | ,56 | 16,74 | ,05 | ,72 | 24,07 |
| 13 | 66 46 44,64 | 14 36,63 | ,43 | 8,44 | ,05 | ,73 | 15,76 |
| 14 | 66 43 36,19 | 11 21,00 | ,30 | 15,49 | ,05 | ,73 | 22,81 |
| 15 | 66 40 43,80 | 0 8 29,56 | +0,17 | 14,41 | ,05 | ,74 | 21,72 |
| 16 | 66 38 15,72 | 6 3,15 | +0,06 | 12,63 | ,06 | ,74 | 19,95 |
| 17 | 66 36 14,74 | 4 1,67 | —0,05 | 14,02 | ,06 | ,75 | 21,33 |
| 22 | 66 32 17,08 | 0 4,25 | ,22 | 12,61 | ,10 | ,76 | 19,95 |
| 23 | 66 32 44,25 | 0 31,16 | ,16 | 12,93 | ,10 | ,76 | 20,27 |
| 24 | 66 33 30,50 | 1 22,80 | ,07 | 7,63 | ,10 | ,76 | 14,97 |
| 25 | 66 34 55,90 | 2 39,25 | +0,03 | 16,68 | ,10 | ,76 | 24,02 |
| 26 | 66 36 31,31 | 4 20,67 | ,15 | 10,79 | ,11 | ,76 | 18,14 |
| 27 | 66 38 41,04 | 6 26,92 | ,29 | 14,41 | ,11 | ,76 | 21,76 |
| 29 | 66 44 2,47 | 11 51,98 | ,55 | 11,04 | ,12 | ,75 | 18,41 |
| 30 | 66 47 24,98 | 15 11,82 | ,66 | 13,82 | ,12 | ,75 | 21,19 |
| July 8 | 67 28 23,87 | 56 19,00 | ,72 | 5,59 | ,14 | ,69 | 13,04 |
| 9 | 67 35 26,79 | 1 3 19,28 | ,61 | 8,12 | ,14 | ,68 | 15,58 |
| 10 | 67 42 39,51 | 10 31,00 | ,49 | 9,00 | ,14 | ,67 | 16,47 |
| 11 | 67 50 28,30 | 18 12,75 | ,35 | 15,90 | ,14 | ,66 | 23,38 |
| 12 | 67 58 25,29 | 26 16,57 | ,22 | 8,94 | ,15 | ,66 | 16,43 |
| 13 | 68 6 52,95 | 34 46,32 | ,10 | 6,73 | ,15 | ,65 | 13,23 |
| 14 | 68 15 38,20 | 43 33,68 | — ,01 | 4,51 | ,16 | ,64 | 12,03 |

| 1837 | N. P. D. | Reduction. | ⊙'s Lat. | Solsticial N. P. D. | Correction for ☽ r Nut. | Correction for ⊙ r Nut. $+\frac{t.\ 0'',46}{365}$ | Mean Solsticial N. P. D. Reduced to Jan. 1. |
|---|---|---|---|---|---|---|---|
| | ° ′ ″ | ° ′ ″ | ″ | ° ′ ″ | ″ | ″ | ° ′ ″ |
| July 15 | 68 24 58,01 | 1 52 46,14 | —0,10 | 66 32 11,77 | +8,16 | —0,62 | 66 32 19,31 |
| 16 | 68 34 25,74 | 2 2 17,60 | ,17 | 7,97 | ,17 | ,61 | 15,53 |
| 18 | 68 54 35,59 | 22 30,90 | ,22 | 4,47 | ,17 | ,59 | 12,05 |
| 19 | 69 5 21,21 | 33 9,63 | ,20 | 11,38 | ,18 | ,58 | 18,98 |
| 23 | 69 51 28,40 | 3 19 11,47 | + ,13 | 17,06 | ,21 | ,54 | 24,73 |

*Observations of the Sun made near to the Winter Solstices of* 1836 *and* 1837 *applied to the determination of the Obliquity of the Ecliptic.*

| 1836 | N. P. D. | Reduction. | ⊙'s Lat. | Solsticial N. P. D. | Correction for ☽ r Nut. | Correction for ⊙ r Nut. $+\frac{t.\ 0'',46}{365}$ | Mean Solsticial N. P. D. Reduced to Jan. 1. |
|---|---|---|---|---|---|---|---|
| | ° ′ ″ | ° ′ ″ | ″ | ° ′ ″ | ″ | ″ | ° ′ ″ |
| Jan. 2 | 113 0 25,15 | +0 27 14,78 | +0,07 | 113 27 40,00 | —5,08 | +0,49 | 113 27 35,41 |
| 3 | 112 55 8,28 | 0 32 30,79 | +0,18 | 39,25 | ,09 | ,48 | 33,84 |
| 4 | 112 49 28,38 | 0 38 14,19 | +0,29 | 42,86 | ,10 | ,47 | 38,23 |
| 6 | 112 36 37,82 | 0 41 1,94 | +0,42 | 40,18 | ,11 | ,45 | 36,52 |
| 7 | 112 29 32,95 | 0 58 6,45 | +0,44 | 39,84 | ,12 | ,44 | 35,16 |
| 8 | 112 22 5,58 | 1 5 37,05 | +0.44 | 43,07 | ,13 | ,43 | 38,37 |
| 9 | 112 14 5,82 | 1 13 33,98 | +0,40 | 40,20 | ,13 | ,43 | 35,50 |
| 10 | 112 5 43,26 | 1 21 58,35 | +0,33 | 41,94 | ,14 | ,42 | 37,22 |
| 11 | 111 56 52,36 | 1 30 48,50 | +0,23 | 41,09 | ,15 | ,41 | 36,25 |
| 13 | 111 37 58,00 | 1 49 44,63 | 0,00 | 42,63 | ,16 | ,39 | 37,86 |
| 14 | 111 27 50,49 | 1 59 50,06 | —0,12 | 40,41 | ,17 | ,38 | 35,62 |
| 16 | 111 6 28,03 | 2 21 16,79 | —0,37 | 44,45 | ,18 | ,37 | 39,64 |
| 17 | 110 55 7,89 | 2 32 35,98 | —0,47 | 43,40 | ,19 | ,34 | 38,55 |
| 18 | 110 43 25,71 | 2 44 19,65 | —0,55 | 44,81 | ,10 | ,33 | 39,94 |
| 19 | 110 31 16,97 | 2 56 27,53 | —0,62 | 42,88 | ,21 | ,31 | 37,98 |
| 21 | 110 5 55,61 | 3 21 51,55 | —0,65 | 46,51 | ,23 | ,27 | 41,55 |
| Nov. 22 | 110 10 48,53 | 3 16 54,52 | —0,19 | 42,86 | —7,11 | +0,68 | 36,43 |
| 23 | 110 23 29,13 | 3 4 15,40 | —0,06 | 44,47 | ,11 | ,70 | 38,06 |
| 26 | 110 59 8,64 | 2 28 33,48 | +0,23 | 42,35 | ,13 | ,75 | 35,97 |
| 27 | 111 10 14,52 | 2 17 26,00 | +0,30 | 40,82 | ,14 | ,77 | 34,45 |
| 28 | 111 21 1,82 | 2 6 42,67 | +0,32 | 44,81 | ,14 | ,79 | 38,46 |
| 29 | 111 31 20,53 | 1 56 22,90 | +0,33 | 43,76 | ,15 | ,80 | 37,41 |
| Dec. 2 | 111 59 47,39 | 1 27 53,61 | +0,15 | 41,15 | ,17 | ,84 | 34,82 |
| 4 | 112 16 43,69 | 1 11 1,18 | —0,08 | 44,79 | ,18 | ,87 | 38,48 |
| 5 | 112 24 29,91 | 1 3 13,00 | —0,22 | 42,69 | ,18 | ,88 | 36,39 |
| 6 | 112 31 51,23 | 0 55 51,70 | —0,35 | 42,58 | ,19 | ,89 | 36,28 |
| 7 | 112 38 49,79 | 0 48 56,56 | —0,48 | 45,87 | ,19 | ,90 | 39,58 |
| 11 | 113 1 57,36 | 0 25 44,77 | —0,81 | 41,32 | ,21 | ,94 | 35,05 |
| 12 | 113 6 38,05 | 0 21 4,98 | —0,83 | 42,20 | ,21 | ,95 | 35,94 |
| 17 | 113 22 57,07 | 0 4 43,08 | —0,49 | 39,66 | ,24 | ,98 | 33,40 |
| 19 | 113 26 16,19 | 0 1 26,56 | —0,23 | 42,52 | ,25 | ,99 | 36,26 |
| 23 | 113 27 10,92 | 0 0 32,96 | +0,22 | 44,10 | ,27 | ,99 | 38,82 |
| 24 | 113 26 13,43 | 0 1 30,33 | +0,28 | 44,04 | ,27 | ,99 | 38,76 |
| 31 | 113 6 20,17 | 0 21 20,46 | —0,06 | 40,57 | ,30 | ,97 | 34,24 |

| 1837 | N. P. D. | Reduction. | ⊙'s Lat. | Solsticial N. P. D. | Correction for ☽ r Nut. | Correction for ⊙ r Nut. $+\frac{t.\ 0'',46}{365}$ | Mean Solsticial N. P. D. Reduced to Jan. 1. |
|---|---|---|---|---|---|---|---|
| | ° ′ ″ | ° ′ ″ | ″ | ° ′ ″ | ″ | ″ | ° ′ ″ |
| Jan. 3 | 112 50 55,34 | 0 36 49,08 | —0,43 | 113 27 43,99 | —7,32 | +0,49 | 113 27 37,16 |
| 5 | 112 38 19,13 | 49 25,07 | ,65 | 43,55 | ,33 | ,46 | 36,68 |
| 6 | 112 31 22,36 | 56 23,83 | ,73 | 45,46 | ,34 | ,45 | 38,57 |
| 7 | 112 24 1,01 | 1 3 47,85 | ,79 | 48,07 | ,34 | ,44 | 41,17 |
| 8 | 112 16 8,08 | 11 40,08 | ,82 | 47,34 | ,35 | ,43 | 40,42 |
| 9 | 112 7 45,93 | 19 57,60 | ,81 | 42,72 | ,36 | ,43 | 35,79 |
| 10 | 111 59 3,92 | 28 41,81 | ,78 | 44,95 | ,37 | ,42 | 38,00 |
| 11 | 111 49 55,77 | 37 50,82 | ,72 | 45,87 | ,38 | ,41 | 38,90 |
| 12 | 111 40 20,05 | 47 26,00 | —0,63 | 45,42 | ,38 | ,40 | 38,44 |
| 19 | 110 21 51,43 | 3 5 58,15 | +0,21 | 49,79 | ,40 | ,31 | 42,70 |
| 20 | 110 9 2,85 | 18 44,05 | +0,29 | 47,19 | ,41 | ,30 | 40,08 |
| Dec. 19 | 113 25 59,57 | +0 1 44,67 | —0,04 | 44,20 | —8,65 | +0,99 | 36,54 |
| 20 | 113 27 4,85 | 0 41,78 | ,16 | 46,47 | ,65 | ,99 | 38,81 |
| 21 | 113 27 35,43 | 0 7,33 | ,30 | 42,46 | ,66 | ,99 | 34,79 |
| 24 | 113 26 32,87 | 1 13,77 | ,68 | 45,96 | ,68 | ,99 | 38,27 |
| 26 | 23 26,43 | 4 19,79 | ,85 | 45,37 | ,69 | ,98 | 37,66 |
| 27 | 21 9,34 | 6 34,94 | ,90 | 43,38 | ,69 | ,98 | 35,67 |
| 29 | 15 15,39 | 12 30,70 | ,92 | 45,17 | ,71 | ,98 | 37,44 |

Taking the means, which it will be observed are the mean values for the commencement of the respective years, and employing the annual variation, (—0″,46) we have determined altogether as follows—

*Mean Obliquity January* 1, 1835.

| | No. obs. | Summer Obs. ° ′ ″ | No. obs. | Winter Obs. ° ′ ″ |
|---|---|---|---|---|
| In the year 1831 from | 33 | 23 27 38,57 | 36 | 23 27 37,14 |
| —— —— 1832 —— | 33 | 42,21 | 40 | 37,82 |
| —— —— 1833 —— | 33 | 40,37 | 47 | 38,15 |
| —— —— 1834 —— | 28 | 41,67 | 22 | 37,00 |
| —— —— 1835 —— | 32 | 40,58 | 30 | 36,56 |
| —— —— 1836 —— | 34 | 40,96 | 34 | 37,41 |
| —— —— 1837 —— | 37 | 41,70 | 18 | 39,09 |
| Mean = | | 23 27 40,87 | | 23 27 37,57 |

Whence, THE MEAN OBLIQUITY JAN. 1st 1835 = 23° 27′ 39″,22

*Observations of the Sun made near to the Vernal Equinoxes of* 1836 *and* 1837 *applied to the determination of the error of the assumed Equinoctial Point.*

| 1836 | Observed N. P. D. | Cor. | N. P. D. corrected for ⊙'s Latitude. | Computed A. R. | Observed A. R. | Error of Eq. Point. | Remarks. |
|---|---|---|---|---|---|---|---|
| | ° ′ ″ | ″ | | h m. s. | m s. ″ | ″ | |
| Feb. 12 | 103 58 37,19 | —0,18 | 103 58 37,01 | 21 40 1,85 | 40 1,54 | —0,31 | |
| 13 | 103 38 41,35 | 0,28 | 103 38 41,07 | 43 58,25 | 43 57,52 | —0,73 | |
| 14 | 103 18 37.35 | 0,36 | 103 18 36,99 | 47 52,83 | 47 52,40 | —0,43 | |
| 15 | 102 58 14,93 | 0,42 | 102 58 14,51 | 51 47,71 | 51 47,18 | —0,53 | |
| 16 | 102 37 42,53 | 0.45 | 102 37 42,08 | 55 41,53 | 55 41.20 | —0,33 | |
| 17 | 102 16 58,93 | 0,46 | 102 16 58.47 | 59 34,10 | 59 34.09 | —0.01 | |
| 18 | 101 56 0,78 | 0,44 | 101 56 0,34 | 22 3 26.65 | 3 26,24 | —0,41 | |
| 19 | 101 34 55,24 | 0,39 | 101 34 54,85 | 7 17,76 | 7 17 63 | —0,13 | |
| 20 | 101 13 37.89 | 0,31 | 101 13 37,58 | 11 8,35 | 11 8,67 | +0,32 | |
| 21 | 100 52 5.56 | —0,21 | 100 52 5,35 | 14 59,08 | 14 58,47 | —0,61 | |
| 24 | 99 46 39,58 | +0,16 | 99 46 39,74 | 26 25.58 | 26 25,28 | —0,30 | |
| 25 | 99 24 34,42 | 0 27 | 99 24 34,69 | 30 12,85 | 30 12,42 | —0,43 | |
| 26 | 99 2 16,49 | 0,39 | 99 2 16,88 | 34 0,28 | 33 59,81 | —0,47 | |
| 27 | 98 39 58,42 | 0,50 | 98 39 58,92 | 37 45,80 | 37 46,16 | +0,36 | |
| 28 | 98 17 25.31 | 0,57 | 98 17 25,88 | 41 32,00 | 41 32,06 | +0,06 | |
| 29 | 97 54 48,64 | 0,63 | 97 54 49,27 | 45 17,06 | 45 17,22 | +0,16 | |
| Mar. 1 | 97 32 3,40 | 0,65 | 97 32 4 05 | 49 1.88 | 49 2,15 | +0.27 | |
| 2 | 97 9 12,18 | 0,66 | 97 9 12,84 | 52 46,11 | 52 46,02 | —0,09 | |
| 3 | 96 46 16,18 | 0,64 | 96 46 16,82 | 56 29.65 | 56 29,69 | +0,04 | |
| 4 | 96 23 10,62 | 0,59 | 96 23 11,21 | 23 0 13,36 | 0 13,01 | —0.35 | |
| 5 | 99 0 5,74 | 0,50 | 96 0 6,24 | 3 55 67 | 3 55,67 | 0,00 | |
| 6 | 95 36 55,59 | 0,40 | 95 36 55,99 | 7 37,54 | 7 37,60 | +0,06 | |
| 7 | 95 13 40,00 | 0,31 | 95 13 40,31 | 11 19,27 | 11 20,16 | +0,89 | |
| 8 | 94 50 15,41 | 0,18 | 94 50 15,59 | 15 1,33 | 15 1,91 | +0,58 | |
| 9 | 94 26 52,79 | +0,06 | 94 26 52,86 | 18 42,11 | 18 42,62 | +0,51 | |
| 10 | 94 3 21,03 | —0,05 | 94 3 20.98 | 22 23,45 | 22 23,56 | +0,11 | |
| 11 | 93 39 49,34 | 0,16 | 93 39 49,18 | 26 3,89 | 26 3,86 | —0,03 | |
| 12 | 93 16 12,32 | 0,23 | 93 16 12,09 | 29 44,59 | 29 44.36 | —0,23 | |
| 13 | 92 52 38,95 | 0,30 | 92 52 38,65 | 33 24,00 | 33 24.33 | +0,33 | |
| 14 | 92 28 57,96 | 0,33 | 92 28 57,63 | 37 4,03 | 37 4,56 | +0,53 | |
| 16 | 91 41 35,63 | 0,33 | 91 41 35,30 | 44 22,58 | 44 22,73 | +0,15 | |
| 17 | 91 17 53,09 | 0,28 | 91 17 52,81 | 48 1,81 | 48 1,66 | —0,15 | |
| 18 | 90 54 12,09 | 0,22 | 90 54 11,87 | 51 40,37 | 51 40,74 | +0,37 | |
| 19 | 90 30 31,33 | —0,13 | 90 30 31,20 | 55 18,71 | 55 19,27 | +0,56 | |
| 20 | 90 6 46,88 | +0,03 | 90 6 46,91 | 58 57,50 | 58 57,11 | —0,39 | |
| 22 | 89 19 26,96 | 0,23 | 89 19 27,19 | 0 6 13,74 | 6 14,33 | +0,59 | |
| 23 | 88 55 45,58 | 0 36 | 88 55 45,94 | 9 52,22 | 9 52.53 | +0,31 | |
| 24 | 88 32 7 26 | 0,47 | 88 32 7,73 | 13 30,47 | 13 30,13 | —0,34 | |
| 25 | 88 8 31.58 | 0,57 | 88 8 32,15 | 17 8,59 | 17 8,63 | +0,04 | |
| 26 | 87 44 59 28 | 0.66 | 87 44 59,94 | 20 46,50 | 20 46,20 | —0.30 | |
| 28 | 86 58 5,42 | 0,76 | 86 58 6,18 | 28 2,10 | 28 2,61 | +0.51 | |
| 29 | 86 34 41,78 | 0,76 | 86 34 42,54 | 31 40,22 | 31 40,04 | —0,18 | |
| 30 | 86 11 24,35 | 0,74 | 86 11 25,09 | 35 18,06 | 35 18,07 | +0,01 | |
| 31 | 85 48 14,09 | 0,70 | 85 48 14,79 | 38 55,50 | 38 56,02 | +0,52 | |
| April 1 | 85 25 2,72 | 0.62 | 85 25 3,34 | 42 33,93 | 42 34,32 | +0,39 | |
| 2 | 85 1 56.19 | 0,53 | 85 1 56,72 | 46 12,50 | 46 12,53 | +0,03 | |
| 3 | 84 39 1,80 | 0,42 | 84 39 2,24 | 49 50.08 | 49 50,93 | +0,85 | |
| 5 | 83 53 13,11 | +0,19 | 83 53 13,30 | 57 8,48 | 57 7.57 | —0,91 | |
| 6 | 83 30 30,82 | +0,07 | 83 30 30,89 | 1 0 47,51 | 0 47,01 | —0,50 | |
| 7 | 83 7 57,50 | —0,04 | 83 7 57,46 | 4 26,38 | 4 25,77 | —0,61 | |

| 1836 | Observed N. P. D. | Cor. | N. P. D. corrected for ⊙'s Latitude. | Computed A. R. | Observed A. R. | Error of Eq. Point. | Remarks. |
|---|---|---|---|---|---|---|---|
| | o ′ ″ | ″ | | h. m. s. | m. s. ″ | ″ | |
| April 8 | 82 45 27,54 | —0,13 | 82 45 27,41 | 1 8 6,03 | 8 5,59 | —0,44 | |
| 9 | 82 23 8,94 | 0,19 | 82 23 8,75 | 11 45,27 | 11 45,03 | —0,24 | |
| 10 | 82 0 55,77 | 0,24 | 82 0 55,53 | 15 25,13 | 15 24,87 | —0,26 | |
| 11 | 81 38 51,77 | 0,26 | 81 38 51,51 | 19 5,07 | 19 5,31 | +0,24 | |
| 12 | 81 16 55,56 | 0,25 | 81 16 55,31 | 22 45,40 | 22 45,55 | +0,15 | |
| 13 | 80 55 9,64 | 0,21 | 80 55 9,43 | 26 26,41 | 26 26,35 | —0,06 | |
| 15 | 80 12 2,37 | —0,06 | 80 12 2,31 | 33 47,83 | 33 49,10 | +*1,27 | obsd. by V. |
| 16 | 79 50 41,31 | +0,04 | 79 50 41,35 | 37 29,73 | 37 30,48 | +0,75 | ——— A. |
| 17 | 79 29 27,63 | 0,17 | 79 29 27,80 | 41 12,47 | 41 13,38 | +0,91 | ——— B. |
| 18 | 79 8 24,31 | 0,28 | 79 8 24,59 | 44 55,60 | 44 55,39 | —0,21 | |
| 19 | 78 47 32,44 | 0,40 | 78 47 32,84 | 48 39,00 | 48 38,52 | —0,48 | |
| 1837 | | | | | | | |
| Feb. 13 | 103 23 19,59 | +0,06 | 103 23 19,65 | 21 46 58,27 | 46 57,52 | —0,75 | |
| 14 | 103 3 1,25 | 0,17 | 103 3 1,42 | 50 53,07 | 50 52,04 | —1,03 | |
| 15 | 102 42 33,40 | 0,27 | 102 42 33,67 | 54 46,58 | 54 45,65 | —0,93 | |
| 16 | 102 21 56,40 | 0,34 | 102 21 56,74 | 58 38,66 | 58 39,21 | +0,55 | |
| 17 | 102 1 2,63 | 0,39 | 102 1 3,02 | 22 2 31,12 | 2 31,89 | +0,77 | |
| 18 | 101 39 58,03 | 0,41 | 101 39 58,44 | 6 22,74 | 6 23,08 | +0,34 | |
| 19 | 101 18 43,42 | 0,40 | 101 18 43,82 | 10 13,45 | 10 13,54 | +0,09 | |
| 20 | 100 57 14,04 | 0,38 | 100 57 14,42 | 14 4,12 | 14 3,94 | —0,18 | |
| 21 | 100 35 41,40 | 0,32 | 100 35 41,72 | 17 53,19 | 17 53,19 | 0,00 | |
| 26 | 98 45 19,56 | —0,20 | 98 45 19,36 | 36 52,06 | 36 51,43 | —0,63 | |
| 27 | 98 22 50,37 | 0,31 | 98 22 50,06 | 36 38,07 | 40 37,34 | —0,73 | |
| 28 | 98 0 15,85 | 0,41 | 98 0 15,44 | 44 23,20 | 44 22,94 | —0,26 | |
| Mar. 1 | 97 37 33,63 | 0,50 | 97 37 33,13 | 48 7,92 | 48 7,99 | +0,07 | |
| 2 | 97 14 44,47 | 0,56 | 97 14 43,91 | 52 52,19 | 52 52,19 | 0,00 | |
| 3 | 96 51 51,38 | 0,59 | 96 51 50,79 | 55 35,60 | 55 36,17 | +0,57 | |
| 4 | 96 28 46,86 | 0,59 | 96 28 46,27 | 59 19,33 | 59 19,70 | +0,37 | |
| 5 | 96 5 39,77 | 0,57 | 96 5 39,20 | 23 3 2,40 | 3 2,83 | +0,43 | |
| 6 | 95 42 26,66 | 0,51 | 95 42 26,15 | 6 45,06 | 6 45,61 | +0,55 | |
| 7 | 95 19 11,27 | 0,45 | 95 19 10,82 | 10 26,93 | 10 27,32 | +0,39 | |
| 8 | 94 55 52,63 | 0,36 | 94 55 52,27 | 14 8,20 | 14 9,22 | +1,02 | |
| 9 | 94 32 23,38 | 0,24 | 94 32 23,14 | 17 50,26 | 17 50,52 | +0,26 | |
| 10 | 94 8 55,18 | 0,12 | 94 8 55,06 | 21 31,20 | 21 31,50 | +0,30 | |
| 11 | 93 45 20,21 | +0,01 | 93 45 20,22 | 25 12,39 | 25 12,64 | +0,25 | |
| 12 | 93 21 42,75 | 0,13 | 93 21 42,88 | 25 53,18 | 28 52,29 | —0,89 | |
| 13 | 92 58 9,92 | 0,24 | 92 58 10,16 | 32 32,62 | 32 32,85 | +0,23 | |
| 17 | 91 23 29,01 | 0,51 | 91 23 29,52 | 47 10,01 | 47 9,35 | —0,66 | |
| 23 | 89 1 24,70 | 0,16 | 89 1 24,86 | 0 9 0,11 | 8 59,74 | —0,37 | |
| 24 | 88 37 47,97 | 0,05 | 88 37 48,02 | 12 38,05 | 12 37,77 | —0,28 | |
| 25 | 88 14 12,12 | —0,07 | 88 14 12,05 | 14 16,14 | 14 15,17 | —0,97 | |
| 27 | 87 27 13,12 | 0,28 | 87 27 12,34 | 23 31,51 | 23 31,73 | +0,22 | |
| 28 | 87 3 45,31 | 0,38 | 87 3 44,93 | 27 9,51 | 27 8,95 | —0,56 | |
| 29 | 86 40 21,81 | 0,43 | 86 40 21,38 | 30 47,47 | 30 46,71 | —0,76 | |
| 30 | 86 17 4,74 | 0,49 | 86 17 4,25 | 34 25,14 | 34 25,55 | +0,41 | |
| 31 | 85 53 47,78 | 0,49 | 85 53 47,29 | 38 3,35 | 38 3,24 | —0,11 | |
| April 1 | 85 30 33,72 | 0,47 | 85 30 33,25 | 41 42,01 | 41 41,90 | —0,11 | |
| 2 | 85 7 33,40 | 0,42 | 85 7 32,98 | 45 19,34 | 45 19,99 | +0,65 | |
| 3 | 84 44 34,53 | 0,35 | 84 44 34,18 | 48 57,38 | 48 58,45 | +1,07 | |
| 7 | 83 13 21,02 | +0,10 | 83 13 21,12 | 1 3 33,87 | 3 33,78 | —0,09 | |
| 8 | 82 50 49,49 | 0,22 | 82 50 49,71 | 7 13,38 | 7 13,40 | +0,02 | |
| 9 | 82 28 26,31 | 0,34 | 82 28 26,64 | 10 52,99 | 10 52,96 | —0,03 | |

* Omitted in taking the Mean.

| 1837 | Observed N. P. D. | Cor. | N. P. D. corrected for ⊙'s Latitude. | Computed A. R. | Observed A. R. | Error of Eq. Point. | REMARKS. |
|---|---|---|---|---|---|---|---|
| | ° ′ ″ | ″ | | h. m. s. | m. s. ″ | ″ | |
| April 11 | 81 44 5,52 | +0,52 | 81 44 6,04 | 1 18 12,58 | 18 12,83 | +0,25 | |
| 12 | 81 22 6,05 | 0,60 | 81 22 6,65 | 21 53,01 | 21 52,92 | —0,09 | |
| 13 | 81 0 17,62 | 0,62 | 81 0 18,24 | 25 33,35 | 25 33,83 | +0,48 | |
| 14 | 80 38 38,25 | 0,63 | 80 38 38,88 | 29 15,97 | 29 15,06 | —0,91 | |
| 15 | 80 17 4,54 | 0,61 | 80 17 5,15 | 32 55,59 | 32 55,94 | +0,35 | |
| 17 | 79 34 33,32 | 0,50 | 79 34 33,82 | 40 18,61 | 40 19,31 | +0,70 | |
| 18 | 79 13 25,28 | 0,40 | 79 13 25,68 | 44 2,07 | 44 2,02 | —0,05 | |

*Observations of the Sun made near to the Autumnal Equinoxes of* 1836 *and* 1837 *applied to the determination of the error of the Equinoctial Point.*

| 1836 | Observed N. P. D. | Cor. | N. P. D. corrected for ⊙'s Latitude. | Computed A. R. | Observed A. R. | Error of Eq. Point. | REMARKS. |
|---|---|---|---|---|---|---|---|
| | ° ′ ″ | ″ | | h. m. s | m. s. ″ | ″ | |
| Sep. 9 | 84 41 43,17 | +0,53 | 84 41 43,70 | 11 10 35,56 | 10 34,77 | —0,79 | |
| 11 | 85 27 14,99 | 0,40 | 85 27 15,39 | 17 46,81 | 17 46,79 | —0,02 | |
| 12 | 85 50 11,29 | 0,31 | 85 50 11,60 | 21 22,82 | 21 22,28 | —0,54 | |
| 16 | 87 22 31,57 | —0,18 | 87 22 31,39 | 35 45,01 | 35 44,70 | —0,31 | |
| 20 | 88 55 36,69 | —0,53 | 88 55 36,16 | 50 6,27 | 50 6,42 | +0,15 | |
| 21 | 89 18 59,54 | 0,56 | 89 18 58,98 | 53 41,93 | 53 42,03 | +0,10 | |
| 22 | 89 42 24,65 | 0,57 | 89 42 24,08 | 57 17,81 | 57 17,44 | —0,37 | |
| 25 | 90 52 32,54 | 0,41 | 90 52 32,13 | 12 8 4,39 | 8 4,59 | +0,20 | |
| 26 | 91 16 2,37 | 0,32 | 91 16 2,05 | 11 41,13 | 11 40,99 | —0,14 | |
| 29 | 92 26 12,20 | +0,04 | 92 26 12,24 | 22 30,37 | 22 30,75 | +0,38 | |
| Oct. 4 | 94 22 40,39 | 0,43 | 94 22 40,82 | 40 38,39 | 40 38,40 | +0,01 | |
| 6 | 95 9 0,74 | 0,43 | 95 9 1,17 | 47 56,48 | 47 56,08 | —0,40 | |
| 8 | 95 55 2,68 | 0,31 | 95 55 2,99 | 55 15,79 | 55 15,20 | —0,59 | |
| 9 | 96 17 54,45 | 0,22 | 96 17 54,67 | 58 55,67 | 58 55,83 | +0,16 | |
| 10 | 96 40 45,03 | 0,11 | 96 40 45,14 | 13 2 36,62 | 2 36,57 | —0,05 | |
| 11 | 97 3 23,18 | —0,01 | 97 3 23,17 | 6 16,89 | 6 17,78 | +0,89 | |
| 12 | 97 26 2,62 | 0,14 | 97 26 2,48 | 9 58,79 | 9 59,67 | +0,88 | |
| 13 | 97 48 36,53 | 0,27 | 97 48 36,26 | 13 41,29 | 13 41,89 | +0,60 | |
| 14 | 98 10 59.48 | 0,38 | 98 10 59,10 | 17 23,59 | 17 23,97 | +0,38 | |
| 18 | 99 39 33,70 | 0,66 | 99 39 33,04 | 32 20,94 | 32 20,80 | —0,14 | |
| 19 | 100 1 19,10 | 0,67 | 100 1 18,43 | 36 6,31 | 36 6,33 | +0,02 | |
| 20 | 100 23 0,87 | 0,65 | 100 23 0,22 | 39 53,11 | 39 52,70 | —0,41 | |
| 21 | 100 44 25,38 | 0,60 | 100 44 24,78 | 43 39,20 | 43 39,34 | +0,14 | |
| 22 | 101 5 44,16 | 0,52 | 101 5 43,64 | 47 26,63 | 47 27,01 | +0,38 | |
| 25 | 102 8 38,39 | 0,21 | 102 8 38,18 | 58 52,98 | 58 53,74 | +0,76 | |
| 1837 | | | | | | | |
| Sep. 9 | 84 36 11,18 | —0,30 | 84 36 10,88 | 11 9 42,80 | 9 43,18 | +0,38 | |
| 12 | 85 44 40,46 | 0,29 | 85 44 40,17 | 20 30,93 | 20 30,11 | —0,82 | |
| 13 | 86 7 32,11 | 0,24 | 86 7 31,87 | 24 5,57 | 24 5,72 | +0,15 | |
| 14 | 86 30 36,22 | 0.16 | 86 30 36,06 | 27 41,45 | 27 41,20 | —0,25 | |
| 15 | 86 53 37,86 | 0,06 | 86 53 37,80 | 31 16,29 | 31 16,69 | +0,40 | |
| 16 | 87 16 48,83 | +0,05 | 87 16 48,88 | 34 51,99 | 34 51,78 | —0,21 | |
| 17 | 87 39 55,75 | 0,17 | 87 39 55,92 | 38 26,56 | 38 27,60 | +1,04 | |
| 18 | 88 3 11,53 | 0,28 | 88 3 11,81 | 42 2,07 | 42 2,70 | +0,63 | |
| 19 | 88 26 31,04 | 0.39 | 88 26 31,43 | 45 37,78 | 45 37,76 | —0,02 | |
| 20 | 88 49 51,21 | 0,50 | 88 49 51,71 | 49 13,30 | 49 13,46 | +0,16 | |

| 1837 | Observed N. P. D. | Cor. | N. P. D. corrected for ⊙'s Latitude. | Computed A. R. | Observed A. R. | Error. of Eq. Point | REMARKS. |
|---|---|---|---|---|---|---|---|
| | ° ′ ″ | ″ | | h. m. s. | m. s ″ | ″ | |
| Sep. 21 | 89 13 14.71 | +0,57 | 89 13 15,28 | 11 52 49,11 | 52 48,59 | —0,52 | |
| 22 | 89 36 39,94 | 0,63 | 89 36 40,57 | 56 25,10 | 56 24,38 | —0,72 | |
| 23 | 90 0 2,65 | 0,66 | 90 0 3,31 | 12 0 0,69 | 0 0,02 | —0,67 | |
| 24 | 90 23 29,99 | 0,66 | 90 23 30,65 | 3 36,68 | 3 35,65 | —1,03 | |
| 25 | 90 46 51,60 | 0,64 | 90 46 52 24 | 7 12,02 | 7 12,08 | +0,06 | |
| 26 | 91 10 17,76 | 0,59 | 91 10 18,35 | 10 48,24 | 10 48.25 | +0,01 | |
| 27 | 91 33 41,44 | 0,51 | 91 33 41,95 | 14 24,28 | 14 24.73 | +0,45 | |
| 28 | 91 57 11,49 | 0,42 | 91 57 11,91 | 18 2.09 | 18 1,04 | —1,05 | |
| Oct. 10 | 96 35 18,17 | —0,39 | 96 35 17,78 | 13 1 43,67 | 1 43,52 | —0,15 | |
| 12 | 97 20 41,73 | 0,22 | 97 20 41.51 | 9 6,19 | 9 6,76 | +0,57 | |
| 13 | 97 43 5,97 | 0,11 | 97 43 5,86 | 12 46,76 | 12 47,81 | +1,05 | |
| 14 | 98 5 34,99 | 0,00 | 98 5 34.99 | 16 29 71 | 16 30,42 | +0,71 | |
| 16 | 98 50 4,12 | +0,23 | 98 50 4,35 | 23 55,86 | 23 56.83 | +0 97 | |

Taking the means and refering to former Vols. we have determined altogether as follows—

## ERROR OF THE ASSUMED EQUINOCTIAL POINT.

| *Observations in Spring.* | s | *Observations in Autumn.* | s |
|---|---|---|---|
| from 19 observations in 1831 | + 0,055 | from 17 observations in 1831 | +0,267 |
| —— 50 ———— 1832 | — ,140 | —— 48 ———— 1832 | ,399 |
| —— 48 ———— 1833 | — ,046 | —— 29 ———— 1833 | ,325 |
| —— 56 ———— 1835 | + ,392 | —— 29 ———— 1835 | ,376 |
| —— 59 ———— 1836 | + ,003 | —— 25 ———— 1836 | ,052 |
| —— 45 ———— 1837 | — ,001 | —— 23 ———— 1837 | ,050 |

In Vol. III, I had proposed to reject the result derived from the Spring Observations of 1835; but the results from the Autumnal Observations of 1836 and 1837, when compared with former results, exhibiting a similarly large discordance, it would appear preferable to retain it; accordingly we have

*Error of the assumed Equinoctial Point.*

| | s |
|---|---|
| From the Observations in Spring | + 0,043 |
| —— —— ——Autumn | + 0,245 |
| ∴ MEAN ERROR OF THE ASSUMED EQUINOCTIAL POINT | + 0,144 |

The results here obtained from the Observations at the Vernal and Autumnal Equinoxes, as well as those arrived at for the Obliquity, at page 68, exhibit a discordance, such as would be explained by attributing an error to the assumed place of the pole (the Latitude in fact); to understand this matter clearly, it is necessary to recollect, that every measure of North Polar Distance which is contained in this and the previous volumes of the Madras Results, has been derived from the Greenwich Catalogue of 720 Stars for 1825; which catalogue reckoned the N. P. D. from a point (supposed to be the pole) situated at an altitude of 51° 28′ 38″,5 above the north horizon of the Greenwich Royal Ob-

servatory; hence, the error (if any) of this assumption, necessarily affects by its whole amount, the N. P. D. of every Star of the above catalogue, and consequently each and every measure of N. P. D. which has been made at Madras: thus, to render the Solsticial Observations at Madras accordant, we must diminish the Latitude of Greenwich 1″,65; and to reconcile the Observations at the Equinoxes, we must diminish the Latitude 0″,66,—rendering it exceedingly probable, that the Latitude of Greenwich as above stated, must be diminished by about one second.*

| | | | |
|---|---|---|---|
| The presumed Latitude of Greenwich..... | 51° | 28′ | 37″,5 |
| In vol. I. Difference of Latitude of Madras and Greenwich. | 38 | 24 | 29 ,3 |
| Latitude of Madras ... | 13 | 4 | 8 ,2 |

## OBSERVATION OF SPOTS UPON THE SUN'S DISC.

The following observations of the various spots which have from time to time passed over the Sun's disc—have been made at the time of Transit with the Meridianal Instruments, so as not to prevent the ordinary observation of the Limb; at the Transit, one or two wires have mostly been taken; and at the Mural Circle, only two Microscopes could be read off; they are however on the whole, I apprehend—little inferior to the other observations.

*Apparent Right Ascension and Declination of Spots observed upon the Sun's Disc, together with their Geocentric and Heliocentric Places.*

| Madras M. T. | | Apparent A. R. | | Apparent Decn. | Geocentric | | Heliocentric | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Longitude. | Latitude. | Longitude. | Latitude. |
| 1835 D. | h. m. | | h. m. s. | ° ′ ″ | ° ′ ″ | ′ ″ | ° ′ ″ | ° ′ ″ |
| Dec. 23 | 23 59,5 | (1) | 18 8 8,25 | —23 22 8,5 | 271 52 3,2 | +4 46,6 | 76 17 31 | +17 5 13 |
| 25 | 0 0,0 | (1) | 12 19,41 | 23 20 32,8 | 272 49 42,6 | +5 21,1 | 90 41 25 | 18 55 3 |
| 26 | 0 0,5 | (1) | 16 29,93 | 23 18 39,0 | 273 47 15,0 | +5 49,2 | 105 28 40 | 21 0 53 |
| 27 | 0 1,0 | (1) | 20 41,78 | 23 16 18,5 | 274 45 7,7 | +6 16,7 | 119 27 38 | 22 45 25 |
| 29 | 0 2,0 | (1) | 29 10,78 | 23 10 50,9 | 276 42 11,3 | +6 40,8 | 149 16 33 | 24 18 17 |
| 30 | 0 2,5 | (1) | 33 28,37 | 23 7 34,2 | 277 41 29,3 | +6 44,3 | 163 52 17 | 24 32 11 |
| 1836 | | | | | | | | |
| Jan. 4 | 0 4,9 | | 18 55 39,23 | 22 41 52,0 | 282 49 1,5 | —8 48,0 | 157 8 8 | —25 37 28 |
| 8 | 0 6,7 | (5) | 19 13 31,72 | 22 28 43,1 | 287 1 4,2 | —6 6,9 | 142 22 0 | —22 8 45 |
| 20 | 0 11,1 | | 20 5 12,24 | 20 13 20,5 | 299 10 37,1 | +7 20,6 | 175 23 23 | +26 56 18 |
| 21 | 0 11,4 | | 9 16,36 | 20 0 14,7 | 300 9 24,2 | +8 7,2 | 170 58 33 | +30 5 10 |
| 23 | 0 12,0 | (1) | 18 10,58 | 19 33 55,3 | 302 17 47,2 | +6 14,3 | 140 3 54 | +22 38 37 |

* In Vol. II. page 84, I had arrived at very nearly the same result,—a result which has lately been completely verified by the observations at Greenwich.

| Madras M. T. | | | Apparent A. R. | | | Apparent Decn. | | | Geocentric Longitude. | | | Geocentric Latitude. | | | Heliocentric Longitude. | | | Heliocentric Latitude. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1836 | D. | h. m. | | h. | m. s. | ° | ′ | ″ | ° | ′ | ″ | ′ | ″ | ° | ′ | ″ | ° | ′ | ″ |
| Jan. | 26 | 0 12,7 | (1) | 20 | 30 10,22 | —18 | 52 | 56,0 | 305 | 12 | 32,2 | +6 | 17,2 | 184 | 17 | 34 | +22 | 51 | 18 |
| | 31 | 0 13,7 | (2) | | 51 57,69 | 17 | 39 | 49,4 | 310 | 31 | 15,8 | —2 | 54,0 | 125 | 44 | 24 | —10 | 19 | 10 |
| Feb. | 1 | 0 13,8 | (2) | | 55 49,54 | 17 | 24 | 47,5 | 311 | 28 | 32,2 | 3 | 35,3 | 139 | 56 | 58 | —12 | 48 | 41 |
| | 2 | 0 13,9 | (2) | | 59 40,58 | 17 | 8 | 48,3 | 312 | 25 | 57,2 | 3 | 36,5 | 153 | 51 | 56 | —12 | 52 | 58 |
| | 3 | 0 14,0 | (2) | 21 | 3 32,39 | 16 | 52 | 33,5 | 313 | 23 | 42,6 | 3 | 47,5 | 168 | 0 | 17 | —13 | 32 | 94 |
| | 4 | 0 14,2 | (2) | | 7 24,72 | 16 | 35 | 53,6 | 314 | 21 | 46,2 | 3 | 48,5 | 182 | 6 | 38 | —13 | 36 | 58 |
| | 5 | 0 14,3 | (2) | | 11 19,86 | 16 | 18 | 54,9 | 315 | 20 | 39,0 | 4 | 5,1 | 195 | 37 | 59 | —14 | 37 | 37 |
| | 8 | 0 14,5 | (5) | | 23 19,76 | 15 | 25 | 44,2 | 318 | 21 | 44,5 | 5 | 39,2 | 213 | 59 | 0 | —20 | 28 | 49 |
| | 9 | 0 14,5 | (5) | | 27 17,16 | 15 | 6 | 48,9 | 319 | 22 | 2,3 | 5 | 28,0 | 223 | 1 | 41 | —19 | 47 | 2 |
| | 15 | 0 14,5 | | | 51 29,27 | 13 | 1 | 51,8 | 325 | 35 | 38,0 | 1 | 53,7 | 165 | 2 | 42 | — 6 | 44 | 15 |
| | 16 | 0 14,4 | (3) | | 55 57,15 | 12 | 41 | 33,2 | 326 | 43 | 56,5 | 4 | 56,1 | 137 | 54 | 9 | —17 | 48 | 18 |
| | 17 | 0 14,4 | (3) | | 59 36,70 | 12 | 21 | 48,2 | 327 | 41 | 2,8 | 4 | 45,1 | 151 | 39 | 21 | —17 | 7 | 44 |
| | 18 | 0 14,3 | (3) | 22 | 3 16,50 | 12 | 1 | 59,5 | 328 | 38 | 17,4 | 4 | 45,6 | 164 | 56 | 46 | —17 | 9 | 25 |
| | 19 | 0 14,2 | (3) | | 6 56,16 | 11 | 42 | 3,1 | 329 | 35 | 23,7 | 5 | 25,1 | 179 | 51 | 22 | —19 | 37 | 52 |
| | 20 | 0 14,1 | (3) | | 10 37,05 | 11 | 21 | 51,7 | 330 | 33 | 22,0 | 5 | 18,8 | 192 | 40 | 54 | —19 | 14 | 26 |
| | 24 | 0 13,6 | (2) | | 27 15,96 | 9 | 46 | 9,4 | 334 | 56 | 50,7 | 4 | 4,2 | 105 | 28 | 26 | —14 | 37 | 59 |
| | 26 | 0 13,3 | (2) | | 34 28,53 | 9 | 3 | 3,8 | 336 | 51 | 54,1 | 3 | 18,6 | 133 | 8 | 39 | —11 | 51 | 51 |
| | 27 | 0 13,2 | (2) | | 38 2,19 | 8 | 41 | 37,9 | 337 | 48 | 51,9 | 3 | 2,6 | 146 | 38 | 47 | —10 | 53 | 41 |
| | 29 | 0 12,8 | (4) | | 45 40,84 | 7 | 57 | 10,5 | 339 | 50 | 42,5 | 4 | 24,1 | 143 | 46 | 50 | —15 | 53 | 30 |
| Mar. | 1 | 0 12,6 | (4) | | 49 13,23 | 7 | 35 | 29,9 | 340 | 47 | 36,3 | 4 | 14,5 | 156 | 14 | 21 | —15 | 17 | 14 |
| | 3 | 0 12,2 | (4) | | 56 16,06 | 6 | 52 | 19,0 | 342 | 41 | 2,4 | 4 | 17,1 | 183 | 13 | 53 | —15 | 27 | 16 |
| | 7 | 0 11,2 | ( ) | 23 | 10 53,40 | 5 | 19 | 2,0 | 346 | 38 | 12,7 | 2 | 26,0 | 198 | 7 | 27 | — 8 | 42 | 45 |
| | 8 | 0 11,0 | ( ) | | 14 24,77 | 4 | 57 | 13,3 | 347 | 35 | 10,8 | 2 | 51,2 | 213 | 13 | 35 | —10 | 14 | 21 |
| | 10 | 0 10,5 | | | 21 34,14 | 4 | 8 | 2,7 | 349 | 32 | 53,8 | +0 | 30,6 | 225 | 1 | 43 | + 1 | 49 | 8 |
| | 31 | 0 4,3 | (6) | | 39 38,70 | 4 | 14 | 6,5 | 10 | 46 | 11,2 | —2 | 3,6 | 148 | 5 | 47 | — 7 | 22 | 50 |
| April | 1 | 0 3,9 | (6) | | 43 5,09 | 4 | 36 | 8,8 | 11 | 42 | 9,3 | —1 | 55,9 | 163 | 14 | 15 | — 6 | 57 | 12 |
| | 2 | 0 3,6 | (6) | | 46 31,01 | 4 | 56 | 46,8 | 12 | 37 | 48,8 | —2 | 3,7 | 177 | 12 | 57 | — 7 | 23 | 40 |
| | 3 | 0 3,3 | (6) | | 49 54,35 | 5 | 19 | 14,7 | 13 | 32 | 49,2 | —1 | 59,3 | 193 | 14 | 40 | — 7 | 11 | 11 |
| | 4 | 0 3,0 | | | 53 42,99 | 5 | 40 | 30,7 | 14 | 33 | 31,0 | —4 | 28,2 | 188 | 24 | 50 | —16 | 17 | 49 |
| | 5 | 0 2,7 | | | 57 14,08 | 6 | | 38,0 | 15 | 30 | 5,7 | —5 | 17,0 | 193 | 41 | 55 | —19 | 22 | 0 |
| | 7 | 0 2,2 | (9) | 1 | 3 55,17 | 6 | 55 | 46,1 | 17 | 22 | 52,6 | +6 | 24,4 | 219 | 52 | 56 | +23 | 43 | 32 |
| | 8 | 0 1,9 | (8) | | 7 10,21 | 7 | 13 | 35,0 | 18 | 14 | 24,2 | +4 | 23,2 | 256 | 59 | 58 | +16 | 0 | 6 |
| | 9 | 0 1,6 | (6) | | 10 54,29 | 7 | 27 | 24,8 | 19 | 11 | 3,2 | —3 | 56,7 | 279 | 50 | 57 | —14 | 21 | 35 |
| | 14 | 0 0,3 | | | 30 51,91 | 9 | 26 | 35,2 | 24 | 20 | 3,7 | +0 | 1,8 | 204 | 17 | 5 | + 0 | 6 | 79 |
| | 15 | 0 0,0 | | | 34 22,89 | 9 | 58 | 40,0 | 25 | 30 | 23,4 | +6 | 49,0 | 151 | 5 | 47 | +25 | 24 | 49 |
| | 22 | 23 58,7 | | 2 | 3 1,36 | +12 | 34 | 13,2 | 32 | 59 | 26,3 | +3 | 10,0 | 242 | 13 | 58 | +11 | 32 | 56 |
| | 30 | 23 56,9 | (6) | | 33 50,58 | 15 | 3 | 56,9 | 40 | 52 | 35,8 | —2 | 22,1 | 219 | 49 | 55 | — 8 | 36 | 30 |
| May | 1 | 23 56,8 | (8) | | 37 25,94 | 15 | 27 | 4,4 | 41 | 49 | 9,0 | +3 | 31,7 | 227 | 8 | 48 | +12 | 53 | 12 |
| Sep. | 25 | 23 51,3 | (7) | 12 | 12 14,74 | — 1 | 15 | 57,0 | 183 | 18 | 43,5 | +3 | 25,0 | 333 | 27 | 44 | +12 | 23 | 23 |
| | 27 | 23 50,7 | (7) | | 19 27,35 | 2 | 0 | 39,0 | 185 | 10 | 10,0 | +2 | 56,7 | 0 | 11 | 0 | +10 | 38 | 57 |
| | 28 | 23 50,3 | (7) | | 22 28 06 | 2 | 22 | 36,3 | 186 | 5 | 50,1 | +3 | 4,7 | 13 | 43 | 30 | +11 | 7 | 57 |
| | 29 | 23 50,0 | (7) | | 25 53,17 | 2 | 45 | 13,5 | 187 | 1 | 42,3 | +2 | 53,7 | 25 | 7 | 24 | +10 | 27 | 12 |
| Oct. | 11 | 23 46,5 | (9) | 13 | 10 38,49 | 7 | 21 | 1,1 | 199 | 6 | 8,2 | +5 | 36,2 | 346 | 12 | 8 | +20 | 31 | 1 |
| | 13 | 23 46,1 | | | 17 44,67 | 8 | 4 | 6,7 | 200 | 59 | 1,9 | +8 | 20,4 | 11 | 53 | 36 | +31 | 24 | 7 |

The numbers (1), (2), &c. are supplied—to shew when the same spot has been re-observed: If we compare the cases in which the same spot has been re-observed after a complete revolution, we determine approximately.

from No. 1, that the Sun rotates on his axis at the rate of 14° 2′ in 24 hours.
——— 2, ——— ——— ——— ——— ——— ——— 14 6 ——— ———
——— 6, ——— ——— ——— ——— ——— ——— 13 48 ——— ———
——— 9, ——— ——— ——— ——— ——— ——— 14 4½ ——— ———

The observation on the 30th April, shews that the position of the spot had shifted 6 or 7 degrees (apparently 1′ 50″ ), or that another spot had sprung up in its neighbourhood; and the observation of No. 1 on the 29th December and 23rd January, shews a variation of 2 degrees in the Heliocentric Latitude:* the observation of No. 9, which—embracing 7 revolutions, should be a good one,—seems to confirm 1 and 2 in giving a rate of rotation of 14° 4′ a day; or it would appear, that the Sun makes one complete *sidereal revolution* on his axis in 25 days 14 hours. With regard to the position of the Solar Axis, the above observations are sufficient only to furnish a rude approximation: it would appear that the inclination of the Solar Axis to the Pole of the Ecliptic is between 6 and 7 degrees; and that the Heliocentric Longitude of the intersection of the Solar Equator with the Plane of the Ecliptic is about 95°.

*Observed Right Ascension and North Polar Distance of* MERCURY, *compared with the places interpolated from the Nautical Almanac.*

| 1836 | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N. P. D. from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m. s.* | ″ | ″ | ° ′ ″ | ° ″ | ″ | |
| Jan. 16 | 0 38 20,1 | 20 17 25,55 | 24,95 | —0,60 | | | | |
| 19 | 0 47 45,8 | 20 38 42,64 | 42,34 | —0,30 | 110 33 15,93 | 33 8,44 | —7,49 | |
| 21 | 53 52,8 | 20 52 43,47 | 43,11 | —0,36 | 109 33 26,60 | 33 17,43 | —9,17 | faint |
| 22 | 56 51,2 | 59 38,76 | 38,92 | +0,16 | 109 0 58,46 | 1 3,30 | +4,84 | |
| 23 | 59 46,1 | 21 6 30,87 | 30,92 | +0,05 | 108 27 22,78 | 27 23,91 | +1,13 | |
| 26 | 1 8 0,9 | 26 36,64 | 36,68 | +0,04 | 106 38 29,92 | 38 29,62 | —0,30 | |
| 27 | 10 33,1 | 21 33 6,08 | 5,68 | —0,40 | 105 59 53,09 | 59 50,46 | —2,63 | |
| 29 | 15 12,3 | 45 37,90 | 37,54 | —0,36 | 104 39 48,95 | 39 48,64 | —0,31 | |
| Feb. 2 | 22 2,0 | 22 8 15,89 | 15,45 | —0,44 | 101 53 47,26 | 53 46,75 | —0,51 | |
| 3 | 23 3,4 | 13 14,11 | 13,80 | —0,31 | 101 12 34,70 | 12 31,82 | —2,88 | |
| 4 | 23 44,1 | 17 51,54 | 51,41 | —0,13 | 100 32 3,79 | 32 0,13 | —3,66 | |
| 5 | 24 2,1 | 22 6,29 | 5,77 | —0,52 | 99 52 41,58 | 52 33,93 | —7,65 | |
| 6 | 23 54,0 | 25 54,92 | 54,59 | —0,33 | 99 14 39,06 | 14 38,77 | —0,29 | |
| 8 | 22 12,1 | 32 5,70 | 5,23 | —0,47 | 98 4 53,09 | 4 54,61 | +1,52 | |
| 9 | 20 33,2 | 34 23,30 | 22,46 | —0,84 | 97 33 59,29 | 33 59,28 | —0,01 | |
| 10 | 18 18,9 | 36 5,58 | 4,97 | —0,61 | 97 6 16,34 | 6 16.00 | —0,34 | |
| April 13 | 23 0 51,3 | 0 30 33,76 | 33,83 | +0,07 | 89 10 43,41 | 10 51,63 | +8,22 | |
| 14 | 23 3 20,0 | 0 36 59,40 | 59,05 | —0,35 | | | | |
| 18 | 14 14,9 | 1 3 42,17 | 41,89 | —0,28 | 85 14 16,18 | 14 22,09 | +5,91 | |
| 22 | 26 52,9 | 32 8,57 | 8,65 | +0,08 | 81 52 3,19 | 52 4,70 | +1,51 | |
| 24 | 34 4,8 | 47 4,50 | 4,65 | +0,15 | 80 8 17,06 | 8 13,18 | —3,88 | |
| 25 | 37 36,2 | 54 43,84 | 43,83 | —0,01 | | | | |
| May 31 | 1 38 53,7 | 6 14 20,44 | 20,31 | —0,13 | 64 53 2,75 | 53 1,61 | —1,14 | |

* In case these spots are not situated upon the illuminated *surface* of the Sun, some part of the discrepancy here found may be explained; but the observation of the Solar spots, are, by reason of their varied figure—so subject to inaccuracy, that nothing conclusive with regard to their situation or movements, can be expected from the above few observations.

| 1836 | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N. P. D. from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m. s.* | ″ | ″ | ° ′ ″ | ° ″ | ″ | |
| July 19 | 22 39 39,7 | 6 31 45,13 | 45,09 | —0,04 | 68 47 2,94 | 47 7,34 | +4,40 | |
| Oct. 6 | 1 12 29,4 | 14 12 30,79 | 30,65 | —0,14 | | | | |
| Nov. 22 | 22 56 34,1 | 15 5 28,70 | 28,36 | —0,34 | 106 19 48,47 | 19 53,30 | +4,83 | |
| 25 | 23 3 16,4 | 15 24 0,09 | 59,94 | —0,15 | 107 53 51,48 | 53 55,13 | +3,65 | |
| Dec. 4 | 25 30,1 | 21 46,49 | 46,01 | —0,48 | 111 52 12,85 | 52 13,01 | +0,16 | |
| 1837 | | | | | | | | |
| Jan. 3 | 0 52 57,2 | 19 43 49,04 | 48,91 | —0,13 | 113 28 46,37 | 28 48,98 | +2,61 | |
| 7 | 1 4 49,2 | 20 11 29,49 | 29,35 | —0,14 | 112 3 31,31 | 3 30,45 | —0,86 | |
| 8 | 7 36,8 | 18 14,01 | 14,22 | +0,21 | 111 38 24,05 | 38 26,14 | +2,09 | |
| 9 | 10 18,5 | 24 52,57 | 52,29 | —0,28 | 111 11 55,61 | 11 56,14 | +0,53 | |
| 10 | 12 53,0 | 31 24,32 | 23,99 | —0,33 | 110 44 4,91 | 44 5,02 | +0,11 | |
| 24 | 21 29,0 | 21 35 13,50 | 12,82 | —0,68 | 103 25 22,54 | 25 20,50 | —2,04 | |
| Feb. 19 | 22 37 21,1 | 20 37 5,09 | 4,27 | —0,82 | | | | |
| 20 | 35 6,7 | 38 47,81 | 47,24 | —0,57 | 107 1 14,05 | 1 18,11 | +4,06 | invisible to the Circle observer. |
| Mar. 1 | 28 11,6 | 21 7 20,03 | 29,78 | —0,25 | 106 52 16,56 | 52 18,07 | +1,51 | |
| 5 | 30 16,7 | 25 12,03 | 11,12 | —0,91 | 106 9 41,18 | 9 48,84 | +7,66 | |
| 6 | 31 6,9 | 29 59,02 | 58,73 | —0,29 | 105 55 34,62 | 55 38,74 | +4,12 | |
| 7 | 32 5,5 | 34 53,34 | 53,08 | —0,26 | 105 40 1,87 | 40 5 19 | +3,32 | |
| 8 | 33 8,8 | 39 54,01 | 53,62 | —0,39 | 105 23 5,94 | 23 8,58 | +2,64 | |
| 9 | 34 19,0 | 45 0,38 | 0,10 | —0,28 | 105 4 47,76 | 4 49,95 | +2,19 | |
| 10 | 35 33,3 | 50 12,39 | 11,70 | —0,69 | 104 45 7,91 | 45 10,10 | +2,19 | |
| 13 | 39 47,2 | 22 6 16,13 | 15,80 | —0,33 | 103 38 0,91 | 38 8,71 | +7,80 | |
| 16 | 44 39,2 | 22 58,39 | 58,36 | —0,03 | 102 19 16,47 | 19 19,42 | +2,95 | |
| 22 | 56 0,1 | 57 59,51 | 59,29 | —0,22 | 99 7 21,77 | 7 26,26 | +4,49 | |
| 23 | 58 3,8 | 23 4 1,64 | 1,29 | —0,35 | 98 30 59,89 | 31 8,69 | +8,80 | |
| 24 | 23 0 12,5 | 10 6,59 | 6,65 | +0,06 | | | | |
| 26 | 4 41,6 | 22 28,21 | 27,66 | —0,55 | 96 35 3,11 | 35 6,14 | +3,03 | |
| 27 | 6 57,3 | 28 42,92 | 43,39 | +0,47 | 95 54 2,12 | 54 4,68 | +2,56 | |
| 28 | 9 19,9 | 35 2,34 | 2,50 | +0,16 | 95 11 56,44 | 11 54,40 | —2,04 | |
| 29 | 11 47,6 | 41 25,93 | 25,69 | —0,34 | 94 28 40,79 | 28 36,44 | —4,35 | |
| 30 | 14 16,6 | 47 52,60 | 52,58 | —0,02 | 93 44 7,86 | 44 11,98 | +4,12 | |
| April 19 | 0 16 43,8 | 2 5 24,23 | 24,26 | +0,03 | | | | |
| 20 | 20 46,6 | 13 24,54 | 24,32 | —0,22 | 76 19 5,37 | 19 5,60 | +0,23 | |
| 21 | 24 51,2 | 21 26,19 | 26,18 | —0,01 | 75 26 59,47 | 26 55,29 | —4,18 | |
| 25 | 41 6,4 | 53 30,57 | 30,67 | +0,10 | 72 12 54,94 | 12 53,15 | —1,79 | |
| 26 | 43 3,8 | 3 1 25,05 | 24,71 | —0,34 | 71 29 1,52 | 29 3,08 | +1,56 | |
| 30 | 51 51,0 | 32 1,78 | 2,11 | +0,33 | 68 56 13,28 | 56 11,70 | —1,58 | |
| May 2 | 1 6 23,8 | 46 27,64 | 27,70 | +0,06 | 67 54 34,49 | 54 32,82 | —1,67 | |
| 3 | 9 22,5 | 53 23,70 | 23,84 | +0,14 | 67 27 34,07 | 27 30,03 | —4,04 | |
| 11 | 24 55,9 | 4 40 32,16 | 32,38 | +0,22 | 65 7 46,01 | 17 44,34 | —1,67 | |
| 12 | 25 41,1 | 4 45 13,94 | 15,03 | +0,09 | 65 11 29,12 | 11 2654 | —2,58 | |
| July 9 | 22 44 11,4 | 5 55 54,24 | 54,86 | +0,62 | | | | |
| 11 | 22 50 26,4 | 6 10 3,54 | 4,12 | +0,58 | 67 19 10,45 | 19 11,77 | +1,32 | |
| 18 | 23 20 7,0 | 7 7 25,62 | 25,38 | —0,24 | 66 49 6,65 | 49 7,74 | +1,09 | |
| 19 | 23 25 0,3 | 7 16 19,23 | 19,72 | +0,49 | | | | |
| Aug. 7 | 0 46 38,3 | 9 49 5,48 | 6,04 | +0,56 | | | | |
| 9 | 0 53 1,4 | 10 3 22,51 | 22,81 | +0,30 | 76 27 28,78 | 27 32,40 | +3,62 | invisible to the Circle observer. |
| 28 | 1 28 33,4 | 11 53 54,96 | 54,87 | —0,09 | 90 6 38,28 | 6 34,25 | —4,03 | |
| Sep. 13 | 28 37,0 | 12 57 3,46 | 3,34 | —0,12 | | | | |
| 20 | 15 7,2 | 13 11 7,39 | 7,04 | —0,35 | 101 30 15,89 | 30 18,03 | +2,14 | |
| 21 | 12 3,8 | 11 59,81 | 59,52 | —0,29 | 101 39 19,31 | 39 21,41 | +2,10 | |
| 22 | 8 39,8 | 12 31,71 | 31,26 | —0,45 | 101 45 19,56 | 45 22,98 | +3,42 | |
| 23 | 5 39,4 | 12 41,05 | 40,16 | —0,89 | 101 48 6,56 | 48 7,98 | +1,42 | |

*Observed Right Ascension and North Polar Distance of* VENUS, *compared with the places interpolated from the Nautical Almanac.*

| 1836 | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N A | Error of N. A. | N. P. D. from Observation. | N. P. D. from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m. s.* | ″ | ″ | ° ′ ″ | ″ | ″ | |
| Jan. 4 | 1 40 36,9 | 20 32 33,75 | 33,38 | —0,37 | 110 29 18,27 | 14,20 | —4,07 | |
| 7 | 44 12,6 | 47 59,41 | 59,49 | +0,08 | 109 33 17,28 | 12,44 | —4,84 | |
| 8 | 45 22,0 | 53 5,58 | 5,48 | —0,10 | 109 13 27,65 | 24,00 | —3,65 | |
| 16 | 53 47,2 | 21 33 5,09 | 4,89 | —0,20 | 106 16 23,19 | 21,53 | —1,66 | |
| 19 | 56 34,6 | 47 42,64 | 42,47 | —0,17 | 105 2 25,68 | 17,75 | —7,93 | |
| 20 | 57 27 6 | 52 32,27 | 32,39 | +0,12 | 104 36 51,04 | 47,18 | —3,86 | |
| 21 | 58 20,0 | 57 21,48 | 21.01 | —0,47 | 104 10 51,89 | 53,26 | +1,37 | |
| 22 | 59 9,9 | 22 2 7,82 | 8,38 | +0,56 | 103 44 34,62 | 36,51 | +1,89 | |
| 23 | 59 59,7 | 6 54,39 | 54,51 | +0,12 | 103 17 59,75 | 58,10 | —1,65 | |
| 25 | 2 1 35,1 | 16 23,00 | 23.06 | +0.06 | 102 23 40,78 | 39,50 | —1,28 | |
| 26 | 2 20,9 | 21 5,49 | 5,60 | +0,11 | 101 56 2,01 | 0,70 | —1,31 | |
| 28 | 3 49,4 | 30 27.20 | 26,86 | —0,34 | 100 59 49,49 | 48,04 | —1,45 | |
| 29 | 4 31,5 | 35 6,25 | 5,86 | —0,39 | 100 31 19,69 | 16,03 | —3,66 | |
| Feb. 2 | 7 10,3 | 53 32,57 | 32,39 | —0,18 | 98 34 33,01 | 34,73 | +1,72 | |
| 3 | 7 48,2 | 58 6,26 | 6,60 | +0,34 | 98 4 48,52 | 49,90 | +1,38 | |
| 4 | 8 25,0 | 23 2 39,89 | 39,78 | —0,11 | 97 34 51,72 | 52,91 | +1,19 | |
| 5 | 9 0,5 | 7 12,25 | 12,16 | —0,09 | 97 4 45,74 | 44,13 | —1,61 | |
| 6 | 9 35,5 | 11 43,88 | 43,72 | —0,16 | 96 34 26,82 | 24,72 | —2,10 | |
| 8 | 10 43,1 | 20 24,61 | 24,63 | +0,02 | 95 33 21,26 | 16,75 | —4,51 | |
| 9 | 11 15,9 | 25 14,25 | 14,03 | —0,22 | 95 2 37,72 | 30,44 | —7,28 | |
| July 31 | 23 20 5,7 | 7 59 34,83 | 35,17 | +0,34 | | | | |
| Sep. 9 | 21 5 27,8 | 22 15,69 | 15,65 | —0.04 | 74 48 24,60 | 13,06 | --11,54 | |
| 12 | 2 36,4 | 31 14,47 | 14.83 | +0,36 | 74 56 36,90 | 26,73 | --10,17 | |
| 20 | 20 57 33,9 | 8 57 44,39 | 44,21 | —0,18 | 75 38 44,87 | 36,74 | —8,13 | |
| Oct. 3 | 20 54 50,7 | 9 46 16,22 | 16,16 | —0,06 | 77 52 44,79 | 42,15 | —2,64 | |
| Nov. 25 | 21 9 40,0 | 13 30 5,47 | 5,03 | —0,44 | 97 13 36,36 | 35,56 | —0,80 | |
| Dec. 1 | 13 12,8 | 57 17,26 | 16,68 | —0,58 | 99 44 53,99 | 52,74 | —1,25 | |
| 5 | 15 51,8 | 14 15 44,15 | 43,60 | —0,55 | 101 22 49,65 | 50,25 | +0,60 | |
| 6 | 16 33,7 | 20 23,38 | 22,87 | —0,51 | 101 46 48,75 | 50,21 | +1,46 | |
| 19 | 27 29,1 | 15 22 36,33 | 35,96 | —0,37 | 106 33 37,93 | 38,03 | +0,10 | |
| 1837 | | | | | | | | |
| Jan. 2 | 21 43 0,4 | 16 33 20,37 | 19,96 | —0,41 | 110 27 13,29 | 13,19 | —0,10 | |
| 19 | 22 5 59,5 | 18 3 25,93 | 25,13 | —0,80 | 112 41 24,05 | 30,49 | +6.44 | |
| Feb. 3 | 27 24,0 | 19 24 2,33 | 1,82 | —0,51 | 111 59 44,08 | 47,71 | +3,63 | |
| 5 | 30 9,4 | 34 41,47 | 40,89 | —0,58 | 111 42 36,87 | 43,17 | +6,30 | |
| 6 | 31 42,4 | 39 59,78 | 59,48 | —0,30 | 111 33 5,82 | 11,83 | +6,01 | |
| 7 | 32 51,8 | 45 17,64 | 17,01 | —0,63 | 111 22 55,20 | 61,78 | +6,58 | |
| 8 | 22 34 13,1 | 19 50 34,46 | 34,30 | —0,16 | 111 12 6,97 | 13,17 | +6,20 | |
| 9 | 35 32,3 | 55 50.99 | 50,52 | —0,47 | 111 0 42,45 | 46.77 | +4,32 | |
| 10 | 36 51,7 | 20 1 6,34 | 5,91 | —0,43 | 110 48 42,37 | 42,56 | +0,19 | |
| 17 | 45 33,9 | 37 28.03 | 27,18 | —0,85 | 109 7 20,18 | 25,18 | +5,00 | |
| 19 | 47 56,0 | 47 41.74 | 41,29 | —0,45 | 108 33 14,10 | 20,44 | +6,34 | |
| 20 | 49 3.5 | 52 46.87 | 46,38 | —0,49 | 108 15 24,82 | 30,94 | +6.12 | |
| 26 | 55 32,7 | 21 22 55.79 | 55,74 | —0,05 | 106 17 43,98 | 49,02 | +5,04 | |
| Mar. 1 | 58 30,1 | 37 45,51 | 45,35 | —0,16 | 105 12 37,33 | 38,12 | +0,79 | |
| 5 | 23 2 16,2 | 57 16,83 | 16,26 | —0,57 | 103 39 46,00 | 52,31 | +6,31 | |
| 7 | 4 2,5 | 22 6 55,58 | 55,36 | —0,22 | 102 51 4,85 | 12,00 | +7,15 | |
| 8 | 4 55,1 | 11 43,45 | 43,33 | —0,12 | 102 26 16,34 | 20.00 | +3,66 | |
| 9 | 5 44,2 | 16 30,73 | 30,37 | —0,36 | 102 1 5,07 | 7,88 | +2,81 | |
| 10 | 6 32,7 | 21 16,90 | 16,37 | —0,53 | 101 35 31,35 | 36,21 | +4,86 | |

| 1837 | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N. P. D from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | h. m. s. | h. m. s. | " | " | ° ′ ″ | ″ | ″ | |
| Mar. 13 | 23 8 54,4 | 22 35 29,07 | 28,80 | —0,27 | 100 17 12,26 | 10,08 | —2,18 | |
| 15 | 10 21,7 | 44 53,00 | 53,07 | +0,07 | 99 23 32,11 | 32,34 | +0,23 | |
| 16 | 11 10,1 | 49 33,56 | 33,41 | —0,15 | 98 56 16,86 | 19,42 | +2,56 | |
| 19 | 13 17,8 | 23 3 31,62 | 30,95 | —0,67 | 97 33 14,68 | 16,66 | +1,98 | |
| 20 | 13 58,9 | 8 8,96 | 8,68 | —0,28 | 97 5 11,93 | 11,88 | —0,05 | |
| 21 | 14 40,0 | 12 46,22 | 45,85 | —0,37 | 96 36 54,43 | 54,56 | +0,13 | |
| 22 | 15 18,3 | 23 17 22,43 | 21,89 | —0,54 | 96 8 25,93 | 26,53 | +0,60 | |
| 23 | 15 57,7 | 21 58,49 | 58,32 | —0,17 | 95 39 49,93 | 48,49 | —1,44 | |
| 24 | 16 36,9 | 26 33,67 | 33,74 | +0,07 | 95 11 4,71 | 0,90 | —3,81 | |
| 26 | 17 54,5 | 23 35 43,67 | 43,42 | —0,25 | 94 13 1,03 | 0,43 | —0,60 | |
| 27 | 18 29,4 | 40 16,82 | 17,29 | +0,47 | 93 43 47,49 | 49,03 | +1,54 | Clock error doubtful. |
| 28 | 19 6,7 | 44 50,68 | 50,30 | —0,38 | 93 14 29,68 | 32,12 | +2,44 | |
| 29 | 19 44,9 | 49 24,55 | 24,41 | —0,14 | 92 45 6,70 | 7,28 | +0,58 | |
| 30 | 20 20,5 | 53 57,48 | 57,73 | +0,25 | 92 15 39,89 | 38,37 | —1,52 | |
| April 1 | 21 32,6 | 0 3 3,08 | 3,01 | —0,07 | 91 16 28,63 | 28,33 | —0,30 | |
| 7 | 25 6,7 | 30 16,31 | 16,33 | +0,02 | 81 18 10,83 | 11,70 | +0,87 | |
| 11 | 27 29,3 | 0 48 25,72 | 26,05 | +0,33 | 86 19 41,45 | 37,74 | —3,71 | |
| 12 | 28 6,2 | 52 59,10 | 58,90 | —0,20 | 85 0 14,08 | 8,14 | —5,94 | |
| 13 | 28 41,6 | 57 32,25 | 32,02 | —0,23 | 85 20 49,05 | 43,76 | —5,29 | |
| 14 | 29 18 5 | 1 2 5,36 | 5,44 | +0,08 | 84 51 31,81 | 25,02 | —6,79 | |
| 17 | 31 11,8 | 15 48,06 | 48,07 | +0,01 | 83 24 10,95 | 10,08 | —0,87 | |
| 19 | 32 29,0 | 24 58,45 | 58,48 | +0,03 | 82 6 44,79 | 41,57 | —3,22 | |
| 20 | 33 7,6 | 29 34,25 | 34,56 | +0,31 | 81 58 16,88 | 10,88 | —6,00 | |
| 21 | 33 47,8 | 34 10,61 | 11,10 | +0,49 | 81 29 58,89 | 52,85 | —6,04 | |
| 23 | 35 9,8 | 43 26,46 | 26,52 | +0,06 | 80 33 57,34 | 50,32 | —7,02 | |
| 24 | 35 50,6 | 48 5,07 | 5,16 | +0,09 | 80 6 15,85 | 6,35 | —9,50 | |
| 25 | 36 34,0 | 52 44,27 | 44,43 | +0,16 | 79 38 45,66 | 36,83 | —8,83 | |
| 26 | 37 17,8 | 57 24,42 | 24,73 | +0,31 | 79 11 26,27 | 21,56 | —4 71 | |
| 27 | 38 2,2 | 2 2 5,54 | 5,71 | +0,17 | 78 44 23,58 | 21,36 | —2,22 | |
| May 1 | 41 8,1 | 20 58,12 | 58,10 | —0,02 | | | | |
| 3 | 42 45,8 | 2 30 29,33 | 29,84 | +0,51 | | | | |
| June 2 | 0 14 32,5 | 56 40,89 | 40,91 | +0,02 | 67 11 28,23 | 24,79 | —3,44 | |
| 5 | 18 37,3 | 5 12 36,00 | 36,04 | +0,04 | 66 43 15,86 | 14,16 | —1,70 | |
| 6 | 20 1,2 | 17 55,78 | 55,85 | +0,07 | 66 35 11,23 | 11,11 | —0,12 | |
| 9 | 24 12,5 | 33 58,77 | 58,48 | —0,29 | 66 15 9,93 | 8,88 | —1,05 | |
| 11 | 27 2,9 | 44 42,86 | 42,42 | —0,44 | 66 5 16,99 | 16,78 | —0,21 | |
| 12 | 28 28,7 | 50 5,02 | 4,88 | —0,14 | 66 1 25,45 | 24,08 | —1,37 | |
| 13 | 29 54,4 | 55 27,50 | 27,77 | +0,27 | 65 58 14,69 | 13,86 | —0,83 | |
| 14 | 31 20,6 | 6 0 50,32 | 50,74 | +0,42 | 65 55 46,69 | 46,37 | —0,32 | |
| 16 | 34 13,3 | 11 37,21 | 37,13 | —0,08 | 65 53 0,14 | 0,04 | —0,10 | |
| 17 | 34 39,8 | 16 59,88 | 0,13 | +0,25 | 65 52 42,35 | 41,28 | —1,07 | |
| 18 | 37 6,7 | 22 23,88 | 23,57 | —0,31 | 65 53 5,23 | 5,49 | +0,26 | |
| 25 | 47 5,5 | 7 0 0,15 | 0,52 | +0,37 | 66 15 56,65 | 56,25 | —0,40 | |
| July 9 | 1 5 36,0 | 13 45,45 | 45,60 | +0,15 | 68 42 55,29 | 58,88 | +3,59 | |
| 11 | 7 59,0 | 24 2,14 | 2,31 | +0,17 | 69 14 12,03 | 14,32 | +2,29 | |
| 12 | 9 8,9 | 29 8,75 | 9,08 | +0,33 | 69 30 45,00 | 45,33 | +0,33 | |
| 13 | 10 17,6 | 34 14,98 | 14,56 | —0,42 | 69 47 52,42 | 50,90 | —1,52 | |
| 14 | 11 25,3 | 39 19,26 | 18,85 | —0,41 | 70 5 33,05 | 30 54 | —2,51 | |
| 20 | 17 44,9 | 9 9 18,85 | 18,84 | —0,01 | 72 2 45,60 | 46,37 | +0,77 | |
| 23 | 20 37,5 | 24 2,09 | 2,11 | +0,02 | 73 8 5,48 | 10,24 | +4,76 | |
| 28 | 25 2,9 | 48 10,58 | 10,01 | —0,57 | 75 6 9,28 | 6,79 | —2,49 | |
| Aug. 9 | 33 44,5 | 10 44 12,29 | 11,97 | —0,32 | 80 26 37,46 | 36,35 | —1,11 | |
| 28 | 43 45,9 | 12 9 9,94 | 9,44 | —0,50 | 89 58 59,54 | 58,86 | —0,68 | |

| 1837. | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N P. D. from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m. s.* | ″ | ″ | ° ′ ″ | ″ | ″ | |
| Sep. 13 | 1 51 29,6 | 13 19 59,89 | 59,53 | —0,36 | 98 10 51,32 | 56,26 | +4,94 | |
| 14 | 52 1,6 | 24 28,49 | 28,00 | —0,49 | 98 40 38,49 | 46,27 | +7,78 | |
| 20 | 55 26,0 | 51 32,75 | 32,14 | —0,61 | 101 35 30,98 | 35,58 | +4,60 | |
| 21 | 56 2,6 | 56 5,77 | 5,39 | —0,38 | 102 3 53,62 | 55,49 | +1,87 | |
| 22 | 56 40,2 | 0 40,08 | 39,48 | —0,60 | 102 31 54,74 | 59,69 | +4,95 | |
| 23 | 57 18,5 | 5 15.01 | 14,44 | —0,57 | 102 59 40,23 | 47,34 | +7,11 | |

*Observed Right Ascension and North Polar Distance of* MARS, *compared with the places interpolated from the Nautical Almanac.*

| 1836 | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N. P. D. from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m. s.* | ′ | ″ | ° ′ ″ | ″ | ″ | |
| July 18 | 20 40 19,2 | 4 28 9,90 | 9,52 | —0,38 | 68 28 40,56 | 41.29 | + 0,73 | |
| 19 | 39 19,2 | 31 4,83 | 4,54 | —0,29 | 68 21 27,46 | 26,03 | — 1,43 | |
| Aug. 26 | 19 58 22,0 | 6 19 50,07 | 49.99 | —0,08 | ——— | ——— | ——— | |
| Sep. 9 | 19 41 7,5 | 6 57 44,13 | 43,59 | —0,54 | 66 39 51,28 | 45,95 | — 5,33 | |
| 11 | 38 30,3 | 7 2 59,07 | 59,28 | +0,21 | 66 45 16,85 | 15,46 | — 1,39 | |
| 12 | 37 11,4 | 7 5 36,35 | 36,40 | +0,05 | 66 48 18,11 | 11,23 | — 6,88 | |
| 13 | 35 49,6 | 7 8 12,34 | 12,64 | +0,30 | 66 51 21,35 | 16,36 | — 4,99 | |
| Oct. 13 | 18 50 10,4 | 8 20 40,78 | 41,05 | +0,27 | 69 14 52,77 | 51,19 | — 8,58 | |
| 14 | 18 48 26,1 | 22 52,91 | 53,46 | +0,55 | ——— | ——— | ——— | |
| 1837 | | | | | | | | |
| Jan. 26 | 13 16 43,4 | 9 40 18,18 | 18,00 | —0,18 | 71 19 39,84 | 27,37 | —12,47 | |
| 27 | 13 11 22,4 | 38 53,01 | 52,48 | —0,53 | 11 32,84 | 21,41 | —11,43 | |
| 28 | 13 5 58,4 | 37 25,45 | 25,10 | —0,35 | 3 23,76 | 14,12 | — 9,64 | |
| 29 | 13 0 34,3 | 35 56,24 | 55.99 | —0,25 | 70 55 18,18 | 6,21 | —11,97 | |
| 31 | 12 49 40,2 | 32 53,67 | 53,27 | —0,40 | 39 11,00 | 58,35 | —12,65 | |
| Feb. 2 | 12 38 42,2 | 29 46,43 | 45,64 | —0,79 | 23 19,06 | 4.87 | —14,19 | |
| 3 | 33 10,5 | 28 10.84 | 10,45 | —0,39 | 15 31,87 | 16,21 | —15,66 | |
| 4 | 27 38,4 | 26 35,03 | 34,59 | —0,44 | 7 49.57 | 34.20 | —15,37 | |
| 5 | 22 6,5 | 24 58,66 | 58,26 | —0,40 | 0 16,20 | 0,04 | —16,16 | |
| 6 | 16 34,7 | 23 22,17 | 21,61 | —0,56 | 69 52 50,49 | 34,66 | —15,83 | |
| 7 | 11 0,9 | 21 45,46 | 44,89 | —0,57 | 45 32,92 | 18.51 | —14,41 | |
| 8 | 5 20,5 | 20 8.44 | 8,20 | —0.24 | 38 26,93 | 14,16 | —12,77 | |
| 9 | 11 59 58,1 | 9 18 32,49 | 31,74 | —0,75 | 69 31 32,82 | 20,48 | —12,34 | |
| 10 | 54 27,3 | 16 56.68 | 56,10 | —0,58 | 25 50,37 | 38,95 | —11,42 | |
| 11 | 48 55,6 | 15 21,48 | 21,09 | —0,39 | 18 20,70 | 11,67 | — 9,03 | |
| 12 | 43 19,6 | 13 47,21 | 46,71 | —0,50 | 12 4,45 | 55,18 | — 9,27 | |
| 13 | 37 25,8 | 12 13,99 | 13,53 | —0,46 | 7 1,36 | 53,89 | — 7,47 | |
| 14 | 32 29,6 | 10 41,96 | 41,27 | —0,69 | 0 13,57 | 7,57 | — 6,00 | |
| 15 | 27 3,7 | 9 11,37 | 10,87 | —0,50 | 68 54 42,75 | 35,07 | — 7,68 | |
| 17 | 16 14,4 | 6 14,73 | 14,40 | —0,33 | 44 23,73 | 18,02 | — 5,71 | |
| 18 | 10 53,8 | 4 49,42 | 48,85 | —0,57 | 39 37,07 | 32,66 | — 4,41 | |
| 19 | 6 34,7 | 3 25,69 | 25,21 | —0,48 | 35 8,82 | 2,22 | — 6,60 | |
| 26 | 10 29 25,9 | 8 44 46,47 | 45,70 | —0,77 | 11 24.99 | 17.89 | — 7,10 | |
| 27 | 24 25,6 | 53 42,33 | 42,05 | —0,28 | 9 5.45 | 59,41 | — 6,04 | |
| 28 | 19 29,8 | 52 42,18 | 41,32 | —0,86 | 7 2,50 | 57,11 | — 5,39 | |
| Mar. 1 | 14 36,1 | 51 34,21 | 43,60 | —0,61 | 5 14,93 | 10,55 | — 4,38 | |
| 4 | 9 59 14,5 | 49 9,21 | 8,45 | —0,76 | 1 28,08 | 24,94 | — 3,14 | |
| 5 | 55 32,8 | 48 23,88 | 23,13 | —0,75 | 0 43,10 | 40,23 | — 2,87 | |

| 1837. | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N. P. D. from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m. s.* | ″ | ″ | ° ′ ″ | ″ | ″ | |
| Mar. 6 | 9 50 54,5 | 8 47 41,62 | 40,96 | —0,66 | 68 0 12,89 | 10,29 | —2,60 | |
| 7 | 46 20,1 | 47 2,73 | 2,06 | —0,67 | 67 59 56,98 | 54,75 | —2,23 | |
| 8 | 41 48,7 | 46 27,11 | 26,44 | —0.67 | 67 59 55,96 | 53,67 | —2,29 | |
| 9 | 37 20,4 | 45 54,54 | 54,05 | —0,49 | 68 0 8,36 | 6 67 | —1,69 | |
| 10 | 32 55,6 | 45 25,53 | 24,91 | —0,62 | 0 35,87 | 33,71 | —2,16 | |
| 11 | 28 33,5 | 44 59,53 | 59,03 | —0,50 | 1 15,99 | 14.51 | —1,48 | |
| 12 | 24 15,6 | 44 36,94 | 36,41 | —0,53 | 2 11,06 | 8,74 | —2,32 | |
| 13 | 19 59,8 | 44 17,53 | 17,00 | —0,53 | 3 18,38 | 15,71 | —2,67 | |
| 16 | 7 33,6 | 43 38,65 | 37,90 | —0,75 | 7 53,22 | 53,06 | —0,16 | |
| 17 | 3 30,7 | 43 31,69 | 31,13 | —0,56 | 9 50,11 | 48,55 | —1,56 | |
| 18 | 8 59 31,2 | 43 28,16 | 27,45 | —0,71 | 11 58,38 | 56,08 | —2,30 | |

*Apparent Right Ascension and North Polar Distance of* VESTA, *compared with the places interpolated from the Nautical Almanac.*

| 1837 | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N. P. D. from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m. s.* | ″ | ″ | ° ′ ″ | ″ | ″ | |
| Mar. 11 | 12 52 13,5 | 12 10 9,52 | 11,57 | +2,05 | 78 8 32,31 | 46,81 | +14,50 | |
| 12 | 47 25,4 | 9 17,54 | 19,88 | 2,34 | 78 0 30,28 | 46,11 | 15,83 | |
| 13 | 42 37,5 | 8 25,60 | 27,64 | 2,04 | 77 52 34,42 | 50,17 | 15,75 | |
| 14 | 37 47,8 | 7 32,16 | 34,44 | 2,28 | 77 44 45,96 | 60,48 | 14,52 | |
| 15 | 32 53,7 | 6 38,42 | 40,81 | 2,39 | 77 37 2,65 | 17,49 | 14,84 | |
| 16 | 28 9,2 | 5 44.51 | 46,72 | 2,21 | 77 29 26,55 | 43,80 | 17,25 | |
| 17 | 23 19,1 | 4 49,77 | 52.21 | 2,44 | 77 22 1,54 | 14,24 | 12,70 | |
| 20 | 8 47,4 | 2 5,05 | 7,03 | 1,98 | 77 0 32,74 | 44,87 | 12,13 | |
| 21 | 3 55,6 | 1 9,40 | 11,76 | 2,36 | 76 53 43,43 | 56,85 | 13,42 | |
| 22 | 11 59 4,5 | 0 14,29 | 16,49 | 2.20 | 76 47 6,49 | 18,53 | 12,03 | |
| 25 | 44 31,8 | 11 57 28,87 | 31,54 | 2,67 | 76 28 23,13 | 34.70 | 11,57 | |
| 26 | 39 42,1 | 56 34,76 | 37,12 | 2,36 | 76 22 33,44 | 40.64 | 7,20 | |
| 28 | 30 3,0 | 54 47,25 | 49,61 | 2,36 | 76 11 35,40 | 46,51 | 11,11 | |
| 29 | 25 14,5 | 53 44,11 | 56,68 | 2,57 | 76 6 27,33 | 38,38 | 11,05 | |
| April 1 | 10 52,0 | 51 19,30 | 21,93 | 2,63 | 75 52 28,03 | 39.13 | 11,10 | |
| 2 | 6 6,5 | 50 29,37 | 31,89 | 2,52 | 75 48 19,34 | 27,53 | 8,19 | |
| 5 | 10 51 55,1 | 49 5,02 | 7,49 | 2,47 | 75 37 19,82 | 31,35 | 11,53 | |
| 6 | 47 13,1 | 47 19,16 | 21,50 | 2,34 | 75 34 14,19 | 23,32 | 9,13 | |
| 7 | 42 32,3 | 46 34,11 | 36,59 | 2,48 | 75 31 21,95 | 31,24 | 9,29 | |
| 8 | 37 52,7 | 45 50,56 | 52,89 | 2,33 | 75 28 46,82 | 55,36 | 8,54 | |
| 9 | 33 14,5 | 45 8,05 | 10,45 | 2,40 | 75 26 26,88 | 34,82 | 7,94 | |
| 10 | 28 37,5 | 44 26,92 | 29,32 | 2.40 | 75 24 22.54 | 30.61 | 8,07 | |
| 11 | 24 1,7 | 43 47,05 | 49,51 | 2,46 | 75 22 34,63 | 42,69 | 8,06 | |
| 12 | 19 27,9 | 43 8,74 | 11,14 | 2,40 | 75 21 3,31 | 10,88 | 7,57 | |
| 13 | 14 55,0 | 42 31,72 | 33,82 | 2,10 | 75 19 46,91 | 55,23 | 8,32 | |
| 14 | 10 27,9 | 41 56,42 | 58,77 | 2,35 | 75 18 49,17 | 55,71 | 6,54 | |
| 15 | 5 53,6 | 41 22,37 | 24,48 | 2,11 | 75 18 5,45 | 13,79 | 8,34 | |
| 16 | 1 26,4 | 40 50,35 | 52,52 | 2,17 | 75 17 38,25 | 45,02 | 6,77 | |
| 17 | 9 57 3,8 | 40 19,39 | | | 75 17 26,25 | | | |
| 18 | 52 39,5 | 39 50,31 | | | 75 17 31,85 | | | |
| 19 | 48 9,7 | 39 22,77 | | | 75 17 51,06 | | | |
| 20 | 43 53,8 | 38 57,18 | | | 75 18 25.86 | | | |
| 22 | 35 15,2 | 38 10,77 | | | 75 20 23,88 | | | |

Places given approximately only in the N.A.

| 1836 | Madras Mean Time of Observation | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N. P. D. from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m. s.* | ″ | ″ | ° ′ ″ | ″ | ″ | |
| April 23 | 9 30 59,0 | 11 37 50,11 | Places given approximately only in the N. A. | | 75 21 45,89 | | | |
| 26 | 18 19,7 | | | | 75 27 19,66 | | | |
| 27 | 14 6,5 | 36 45,21 | | | 75 29 37,78 | | | |
| 28 | 9 59,1 | 36 33,34 | | | 75 32 10,81 | | | |
| 1837 | | | | | | | | |
| Aug. 27 | 12 51 56,7 | 23 15 14,52 | 16,13 | +1,61 | 106 3 37,22 | 20,34 | —16,88 | |
| 28 | 47 9,6 | 14 22,13 | 24,39 | 2,26 | 106 11 42,15 | 26,14 | 16,01 | |
| 29 | 42 21,5 | 13 30,21 | 32,04 | 1,83 | 106 19 44,08 | 26,87 | 17,21 | |
| Sep. 13 | 11 29 41,5 | 22 59 56,73 | 58,60 | 1,87 | 108 3 35,34 | 23,72 | 11,62 | |
| 14 | 25 3,3 | 59 4,39 | 6,02 | 1,63 | 108 9 5,66 | 53,03 | 12,63 | |
| 21 | 10 51 45,4 | 53 16,73 | 18,77 | 2,04 | 108 41 15,29 | 4,36 | 10,93 | |
| 22 | 47 4,0 | 52 31,02 | 32,88 | 1,86 | 108 44 55,29 | 44,56 | 10,73 | |
| 23 | 42 23,6 | 51 46,33 | 48,09 | 1,76 | 108 48 20,64 | 10,45 | 10,19 | |
| 24 | 37 44,3 | 51 2,68 | 4,51 | 1,83 | 108 51 31,98 | 21,98 | 10,00 | |
| 27 | 24 12,6 | 48 59,38 | 1,00 | 1,62 | 108 59 40,51 | 29,75 | 10,76 | |

*Apparent Right Ascension and North Polar Distance of* JUNO, *compared with the places interpolated from the Nautical Almanac.*

| 1836 | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N. P. D. from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m. s.* | ″ | ″ | ° ′ ″ | ″ | ″ | |
| Jan. 2 | 11 50 55,7 | 6 36 39,36 | 35,76 | —3,60 | 89 25 24,11 | 44,32 | +20,21 | |
| 3 | 46 6,8 | 35 46,55 | 42,97 | 3,58 | 89 20 5,30 | 28,33 | 23,03 | |
| 6 | 31 44,1 | 33 11,25 | 7,59 | 3,66 | 89 2 40,10 | 1,45 | 21,35 | |
| 7 | 26 57,7 | 32 20,57 | 17,09 | 3,48 | 88 56 18,76 | 41,00 | 22,24 | a Star observed by mistake. |
| 8 | 22 12,4 | 31 30,89 | 27,42 | 3,47 | 88 54 | | | |
| 11 | 8 0,7 | 29 6,84 | 3,29 | 3,55 | 88 28 27,83 | 51,78 | 23,95 | |
| 13 | 10 58 39,0 | 27 36,25 | 32,42 | 3,83 | 88 13 14,16 | 35,68 | 21,52 | |
| 14 | 53 58,6 | 26 52,38 | 48,77 | 3,61 | 88 5 17,82 | 38,50 | 20,68 | a Star observed by mistake. |
| 16 | 44 43,2 | 25 28,83 | 25,29 | 3,54 | 87 54 | | | |
| 24 | 8 43,4 | 20 54,73 | 51,09 | 3,64 | 86 36 32,10 | 53,17 | 21,07 | |
| 31 | 9 38 42,7 | 18 24,98 | 21,73 | 3,25 | 85 27 43,67 | 2,69 | 19,02 | |
| Feb. 1 | 34 30,0 | 18 10,90 | 7,79 | 3,11 | 85 17 41,71 | 58,31 | 16,60 | |
| 2 | 30 22,9 | 17 58,61 | 55,75 | 2,86 | 85 7 33,56 | 51,80 | 18,24 | |
| 1837 | | | | | | | | |
| April 11 | 12 27 41,2 | 13 46 49,29 | 44,93 | 4,36 | 89 53 47,86 | 40,43 | — 7,43 | very faint. |
| 12 | 22 58,3 | 46 1,96 | 57,86 | 4,10 | 89 47 26,13 | 18,41 | — 7,72 | ——— |
| 18 | 11 54 38,7 | 41 17,56 | 14,27 | 3,29 | 89 3 54,29 | 51,62 | — 2,67 | ——— |
| 23 | 31 7,5 | 37 25,15 | 21,33 | 3,82 | 88 31 21,51 | 20,65 | — 0,86 | ——— |
| 27 | 12 24,0 | ——— | ——— | ——— | 88 7 41,12 | 35,05 | — 6,07 | ——— |

*Apparent Right Ascension and North Polar Distance of* PALLAS, *compared with the places interpolated from the Nautical Almanac.*

| 1836 | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N. P. D. from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m s.* | ″ | ″ | ° ′ ″ | ″ | ″ | |
| Aug. 17 | 11 13 55,3 | 20 58 27,79 | 29,49 | +1,70 | 78 46 25,87 | 3,04 | —22,83 | thick haze |
| Sep. 10 | 9 24 53,9 | 20 43 46,11 | 47,46 | 1,35 | 83 22 58,84 | 30,85 | 27,99 | faint |
| 1837 | | | | | | | | |
| Oct. 13 | 12 48 29,5 | 2 18 4,00 | 7,73 | +3,73 | 108 25 46,49 | 25,58 | —20,91 | |
| 16 | 35 32,4 | 15 54,80 | 58,13 | 3,33 | 109 14 57,40 | 42,43 | 14,97 | |
| 23 | 2 36,2 | 10 29,23 | 32,96 | 3,73 | 111 0 57,31 | 44,09 | 13,22 | |
| 25 | 11 53 7,6 | 8 52,42 | 56,21 | 3,79 | 111 28 32,49 | 19,07 | 13,42 | |

*Apparent Right Ascension and North Polar Distance of* CERES, *compared with the places interpolated from the Nautical Almanac.*

| 1836 | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N. P. D. from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m. s.* | ″ | ″ | ° ′ ″ | ″ | ″ | |
| Sep. 12 | 12 1 0,3 | 23 28 10,79 | 10,70 | —0,09 | 110 44 57,12 | 48,64 | — 8,48 | |
| Oct. 1 | 10 31 16,5 | 13 7,18 | 7,04 | —0,14 | 111 42 16,52 | 10,08 | 6,44 | |
| 3 | 22 3,4 | 11 45,90 | 45,67 | —0,23 | 44 4,82 | 1,21 | 3,61 | |
| 6 | 8 21,6 | 9 50,94 | 51,04 | +0,10 | 45 20,87 | 15,63 | 5,24 | |
| 7 | 3 49,8 | 9 14,92 | 14,95 | +0,03 | 45 24,46 | 16,01 | 8,45 | |
| 8 | 9 59 18,8 | 8 40,05 | 39,89 | —0,16 | 45 10,90 | 4,27 | 6,63 | |
| 1837 | | | | | | | | |
| Dec. 17 | 11 14 40,6 | 4 59. 17,27 | 18,35 | +1,08 | 67 37 36,77 | 28,96 | — 7,81 | [obsd. at circle. |
| 18 | 8 45,8 | 57 17,05 | 17,87 | +0,82 | 35 36,44 | 58,38 | +21,94 | Probably a star |

*Apparent Right Ascension and North Polar Distance of* JUPITER, *compared with the places interpolated from the Nautical Almanac.*

| 1836 | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N. P. D. from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m. s.* | ″ | ″ | ° ′ ″ | ″ | ″ | |
| Jan. 2 | 12 2 22,3 | 6 46 57,33 | 57,62 | +0,29 | 66 54 53,56 | 56,62 | +3,06 | |
| 6 | 11 43 9,0 | 44 37,85 | 38,19 | +0,34 | 51 50,89 | 49,94 | —0,95 | |
| 7 | 38 38,4 | 44 3,14 | 3,55 | +0,41 | 51 3,99 | 4,82 | +0,83 | |
| 8 | 34 8,3 | 43 28,57 | 29,04 | +0,47 | 50 20,34 | 20,40 | +0,06 | |
| 9 | 29 38,4 | 42 54,34 | 54,70 | +0,36 | 49 35,37 | 36,77 | +1,40 | |
| 11 | 20 37,9 | 41 46,14 | 46,60 | +0,46 | 48 9,87 | 11,62 | +1,75 | |
| 13 | 11 39,4 | 40 39,09 | 39,48 | +0,39 | 46 47,54 | 48,81 | +1,27 | |
| 14 | 7 9,7 | 40 6,08 | 6,34 | +0,26 | 46 8,92 | 8,69 | —0,23 | |
| 16 | 10 58 12,8 | 39 0,08 | 0,72 | +0,64 | 44 50,35 | 51,05 | +0,70 | |
| 19 | 44 50,6 | 37 25,43 | 25,98 | +0,55 | 43 3,52 | 0,41 | —3,11 | |
| 20 | 40 24,0 | 36 54,52 | 55,15 | +0,60 | 42 27,22 | 25,10 | —2,12 | |
| 24 | 22 41,9 | 34 —— | —— | —— | 40 12,65 | 12,45 | —0,20 | |
| 31 | 9 52 6,8 | 31 51,27 | 51,39 | +0,12 | 36 51,96 | 52,39 | +0,43 | |
| Feb. 1 | 47 46,8 | 31 27,27 | 27,50 | +0,23 | 36 27,52 | 27,05 | —0,47 | |
| 2 | 43 27,4 | 31 3,90 | 4,24 | +0,34 | 36 0,43 | 2,54 | +2,11 | |
| 3 | 39 9,4 | 30 41,60 | 41,67 | +0,07 | 35 38,71 | 38,82 | +0,11 | |
| 4 | 34 51,7 | 30 19,84 | 19,82 | —0,02 | 35 14,70 | 15,81 | +1,11 | |
| 5 | 30 34,5 | 29 58,75 | 58,68 | —0,07 | 34 53,3 | 53,40 | +0,07 | |
| 7 | 22 3,6 | 29 18,81 | 18,64 | —0,17 | 34 11,73 | 11,47 | —0,26 | |
| 8 | 17 48,5 | 29 0,09 | 59,74 | —0,35 | 33 51,93 | 51,56 | —0,37 | |
| 10 | 9 20,9 | 28 24,60 | 24,29 | —0,31 | 33 14,51 | 13,83 | —0,68 | |
| 11 | 5 8,9 | 28 8,03 | 7,74 | —0,29 | 32 55,86 | 56,02 | +0,16 | |
| 13 | 8 56 46,3 | 27 37,10 | 36,97 | —0,13 | 32 23,25 | 22,58 | —0,67 | |
| 14 | 52 36,9 | 27 23,24 | 22,86 | —0,38 | 32 6,65 | 6,91 | +0,26 | |
| 15 | 48 27,2 | 27 9,76 | 9,57 | —0,19 | 31 53,05 | 51,84 | —1,21 | |
| 16 | 44 19,0 | 26 57,69 | 57,12 | —0,57 | 31 —— | 37,47 | —— | |
| 17 | 40 11,5 | 26 45,92 | 45,52 | —0,40 | 31 25,73 | 23,61 | —2,12 | |
| 18 | 36 5,0 | 26 35,06 | 34,76 | —0,30 | 31 13,23 | 10,54 | —2,69 | |
| 21 | 23 50,5 | 26 8,13 | 7,61 | —0,52 | 29 37,60 | 35,13 | —2,47 | |
| 23 | 15 44,9 | 25 54,10 | 53,81 | —0,29 | 30 13,28 | 14,53 | +1,25 | |

*Apparent Right Ascension and North Polar Distance of* JUPITER *continued.*

| 1836 | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N. P. D from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m. s.* | ″ | ″ | ° ′ ″ | ″ | ″ | |
| Feb. 26 | 8 3 42,6 | 6 25 39,63 | 39,62 | —0,01 | 66 29 49,59 | 49,03 | —0,56 | |
| 27 | 7 59 43,6 | 25 36,69 | 35,82 | —0,87 | 29 40,27 | 40,62 | +0,35 | |
| Mar. 14 | 6 57 55,1 | 26 43,43 | 43,41 | —0,02 | 28 55,84 | 57,65 | +1,81 | |
| 17 | 46 43,8 | 27 19,37 | 19,43 | +0,06 | 29 7,25 | 6,15 | —1,10 | |
| 18 | 43 1,2 | 27 32,89 | 32,87 | —0,02 | 29 8,25 | 10,16 | +1,91 | |
| 19 | 39 20,2 | 27 47,77 | 46,90 | —0,87 | ——— | 14,88 | ——— | |
| June 15 | 1 50 53,8 | 25 30,81 | 30,55 | —0,26 | 67 40 57,52 | 54,34 | —3,18 | |
| Sep. 9 | 21 27 1,2 | 43 54,63 | 54,35 | —0,28 | 71 22 44,39 | 42,30 | —2,09 | |
| 12 | 21 17 34,2 | 46 15,62 | 15,83 | +0,21 | 32 25,11 | 21,51 | —3,60 | |
| 20 | 20 52 8,8 | 52 19,45 | 18,91 | —0,54 | 55 14,36 | 13,07 | —1,29 | |
| Oct. 2 | 20 13 17,3 | 9 0 39,90 | 39,82 | —0,08 | 72 27 37,17 | 38,85 | +1,68 | |
| 3 | 20 10 0,2 | 1 18,98 | 18,92 | —0,06 | 30 13,32 | 10,76 | —2,56 | |
| 6 | 20 0 7,5 | 3 13,54 | 13,25 | —0,29 | 37 48,45 | 49,23 | +0,78 | |
| 12 | 19 40 4,2 | 6 49,94 | 49,89 | —0,05 | 52 14,50 | 15,62 | +1,12 | |
| 13 | 36 46,0 | 7 24,98 | 24,25 | —0,73 | 54 35,48 | 35,05 | —0,43 | |
| 14 | 33 24,3 | 7 58,53 | 58,16 | —0,37 | 56 50,97 | 50,71 | —0,26 | |
| 19 | 16 21,1 | 10 40,39 | 39,81 | —0,58 | 73 7 46,61 | 44,83 | —1,78 | |
| 1837 | | | | | | | | |
| Jan. 26 | 12 43 19,7 | 9 6 49,00 | 48,29 | —0,71 | 72 29 15,51 | 14,28 | —1,23 | |
| 27 | 38 52,4 | 6 17,72 | 16,93 | 0,79 | 26 51,27 | 50,01 | 1,26 | |
| 28 | 34 24,4 | 5 46,19 | 45,41 | 0,78 | 24 25,75 | 25,70 | 0,05 | |
| 29 | 29 57,4 | 5 14,30 | 13,76 | 0,54 | 22 1,82 | 1,49 | 0,33 | |
| 31 | 21 1,9 | 4 10,71 | 10,16 | 0,55 | 17 15,35 | 13,57 | 1,78 | |
| Feb. 2 | 12 7,1 | 3 6,95 | 6,31 | 0,64 | 12 32,37 | 27,37 | 5,00 | |
| 3 | 7 38,2 | 2 35,13 | 34,41 | 0,72 | 10 8,34 | 5,06 | 3,28 | |
| 4 | 3 10,6 | 2 3,31 | 2,53 | 0,78 | 7 46,85 | 43,75 | 3,10 | |
| 5 | 11 58 42,8 | 1 31,10 | 30,68 | 0,42 | 5 24,68 | 22,99 | 1,69 | |
| 6 | 54 16,4 | 0 59,56 | 58,90 | 0,66 | 3 6,13 | 3,13 | 3,00 | |
| 7 | 49 46,8 | 0 27,79 | 27,21 | 0,58 | 0 44,61 | 44,27 | 0,34 | |
| 8 | 45 21,5 | 8 59 56,18 | 55,64 | 0,54 | 71 58 28,37 | 26,51 | 1,86 | |
| 9 | 40 53,7 | 59 24,85 | 24,20 | 0,65 | 56 9,43 | 10,05 | +0,62 | |
| 10 | 36 27,1 | 58 53,50 | 52,93 | 0,57 | 53 55,91 | 54,79 | —1,12 | |
| 11 | 31 59,2 | 58 22,30 | 21,81 | 0,49 | 51 44,00 | 40.93 | 3,07 | |
| 12 | 26 26,3 | 57 51,39 | 50,97 | 0,42 | 49 28,67 | 28,57 | 0,10 | |
| 13 | 23 6,8 | 57 21,05 | 20,33 | 0,72 | 47 18,95 | 17,80 | 1,15 | |
| 14 | 18 39,5 | 56 50,52 | 49,80 | 0,72 | 45 9,30 | 8,05 | 1,25 | |
| 15 | 14 14,9 | 56 20,46 | 19,72 | 0,74 | 43 3,05 | 1,60 | 1,45 | |
| 17 | 5 22,3 | 55 21,05 | 20,49 | 0,56 | 38 53,68 | 52,60 | 1,08 | |
| 18 | 0 58,4 | 54 52,10 | 51,38 | 0,72 | 36 53,07 | 51,05 | 2,02 | |
| 19 | 10 56 33,7 | 55 23,22 | 22,63 | 0,59 | 34 52,83 | 51,59 | 1,24 | |
| 20 | 52 9,7 | 55 54,95 | 54,26 | 0,69 | 32 52,66 | 54,14 | +1,48 | |
| 21 | 47 45,5 | 53 26,69 | 26,29 | 0,40 | 31 2,09 | 58,73 | —3,36 | |
| 26 | 24 53,7 | 50 13,59 | 13,04 | 0,55 | 21 57,26 | 56,45 | —0,81 | |
| 27 | 20 32,3 | 49 48,41 | 47,84 | 0,57 | 20 16,65 | 15,34 | —1,31 | |

*Apparent Right Ascension and North Polar Distance of* SATURN, *compared with the places interpolated from the Nautical Almanac.*

| 1836 | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N. P. D. from N. A. | Error of N. A. | REMARKS. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m. s.* | ″ | ″ | ° ′ ″ | ″ | ″ | |
| April 13 | 12 37 21,5 | 14 5 21,56 | 21,60 | +0,04 | 99 48 37,10 | 53,39 | +16,29 | |
| 14 | 33 8,6 | 5 4,47 | 4,56 | +0,09 | 47 3,42 | 19,93 | 16,51 | |
| 15 | 28 55,0 | 4 47,23 | 47,45 | +0,22 | 45 28,80 | 46,37 | 17,57 | |
| 16 | 24 43,4 | 4 30,29 | 30,11 | —0,18 | 43 54,80 | 12,45 | 17,65 | |
| 17 | 20 29,0 | 4 12,89 | 13,03 | +0,14 | 42 21,36 | 39,05 | 17,69 | |
| 19 | 12 3,0 | 3 38,20 | 38,43 | +0,23 | 39 13,78 | 31,83 | 18,05 | |
| 20 | 7 49,7 | 3 20,97 | 21,09 | +0,12 | 37 41,46 | 58,67 | 17,21 | |
| 22 | 11 59 23,4 | 2 46,34 | 46,36 | +0,02 | 35 33,45 | 52,55 | 19,10 | |
| 23 | 55 9,8 | 2 28,86 | 28,99 | +0,13 | 33 2,50 | 19,89 | 17,39 | |
| 24 | 50 57,2 | 2 11,59 | 11,64 | +0,05 | 31 27,80 | 47,63 | 19,83 | |
| 26 | 42 32,7 | 1 36,90 | 36,99 | +0,09 | 28 25,63 | 44,31 | 18,68 | |
| 28 | 34 4,4 | 1 2,32 | 2,47 | +0,15 | 25 23,37 | 42,69 | 19,32 | |
| 29 | 29 50,6 | 0 45,15 | 45,28 | +0,13 | 23 51,92 | 12,65 | 20,73 | |
| May 1 | 21 25,3 | 0 10,91 | 11,14 | +0,23 | 20 54,84 | 14,61 | 19,77 | |
| 4 | 8 47,2 | 13 59 20,85 | 20,59 | —0,26 | 16 31,82 | 53,49 | 21,67 | |
| 5 | 4 35,2 | 59 4,03 | 3,94 | —0,09 | 15 6,10 | 28,12 | 22,02 | |
| 7 | 10 56 10,3 | 58 31,13 | 31,80 | +0,67 | 12 18,97 | 39,91 | 20,94 | haze. |
| 8 | 52 1,0 | 58 14,95 | 14,71 | —0,24 | 10 59,32 | 17,28 | 17,96 | |
| 9 | 47 44,9 | 57 58,60 | 58,56 | —0,04 | 9 34,70 | 55,35 | 20,65 | |
| 11 | 39 22,5 | 57 26,68 | 26,71 | +0,03 | 6 55,93 | 15,19 | 19,26 | |
| 15 | 22 38,2 | 56 25,19 | 24,98 | —0,21 | 1 46,42 | 8,87 | 22,45 | |
| 18 | 10 5,2 | 55 40,63 | 40,72 | +0,09 | 98 58 12,24 | 32,98 | 20,74 | |
| 19 | 5 55,1 | 55 26,35 | 26,39 | +0,04 | 57 3,42 | 23,85 | 20,43 | |
| 23 | 9 49 17,0 | 54 31,37 | 31,38 | +0,01 | 52 40,93 | 2,13 | 21,20 | |
| 28 | 28 34,1 | 53 28,28 | 28,32 | +0,04 | 37 47,90 | 11,61 | 23,71 | |
| June 10 | 8 35 17,1 | 51 17,72 | 17,90 | +0,18 | 38 40,47 | 4,31 | 23,84 | |
| 11 | 31 13,9 | 51 10,34 | 10,07 | —0,27 | 38 10,83 | 35,73 | 24,90 | |
| 12 | 27 9,8 | 51 2,68 | 2,58 | —0,10 | 37 45,21 | 9,15 | 23,94 | |
| 13 | 23 6,8 | 50 55,73 | 55,43 | —0,30 | 37 22,83 | 44,57 | 21,74 | |
| 14 | 19 4,4 | 50 48,89 | 48,63 | —0,26 | 36 58,22 | 22,09 | 23,87 | |
| 17 | 6 2,2 | 50 30,38 | 30,30 | —0,08 | 36 4,61 | 27,24 | 22,63 | |
| 20 | 7 52 41,2 | 50 15,29 | 15,16 | —0,13 | 35 28,40 | 50,48 | 22,08 | |
| 28 | 23 3,8 | 49 51,06 | 50,80 | —0,26 | 35 24,73 | 47,10 | 22,37 | |
| 30 | 15 9,5 | 49 48,69 | 48,13 | —0,46 | 35 44,33 | 7,74 | 23,41 | |
| July 2 | 7 16,5 | 49 47,61 | 47,41 | —0,20 | ——— | —— | —— | |
| 4 | 6 59 25,3 | 49 48,16 | 47,87 | —0,29 | ——— | —— | —— | |
| 1837 | | | | | | | | |
| Mar. 2 | 16 19 23,2 | 15 1 27,46 | 27,17 | —0,29 | 104 35 48,49 | 6,56 | 18,07 | |
| 8 | 15 55 26,9 | 1 7,60 | 6,15 | —0,45 | 33 3,73 | 19,72 | 15,99 | |
| May 1 | 12 11 35,7 | 14 49 32,50 | 31,85 | —0,65 | 103 36 15,28 | 39,22 | 23,94 | |
| 2 | 7 22,1 | 49 14,13 | 14,15 | +0,02 | 34 55,87 | 20,41 | 24,54 | |
| 3 | 3 8,3 | 47 56,67 | 56,42 | —0.25 | 33 36,82 | 59,80 | 22,98 | |
| 4 | 11 58 54,6 | 48 39,01 | 38,68 | —0,33 | 32 17,72 | 41,39 | 23,67 | |
| 11 | 29 19,9 | 46 35,43 | 34,94 | —0,49 | 23 19,44 | 42,22 | 22,78 | |
| 12 | 25 6,6 | 46 17,91 | 17,42 | —0,49 | 22 4,95 | 26,81 | 21,86 | |
| 14 | 16 40,0 | 45 43,12 | 42,14 | —0,98 | ——— | —— | —— | |
| 15 | 12 27 7 | 45 25,98 | 25,38 | —0,60 | ——— | —— | —— | |
| 30 | 10 9 26,3 | 41 23,17 | 22,23 | —0,94 | 1 38,44 | 58,32 | 19,88 | |
| July 11 | 7 18 13,1 | 35 17,05 | 16,77 | —0,28 | 102 42 43,60 | 3,22 | 19,62 | |
| Aug. 8 | 5 29 53,4 | 37 3,82 | 3,12 | —0,70 | 102 58 55,10 | 15,56 | 20,46 | |

*Apparent Right Ascension and North Polar Distance of* GEORGIAN, *compared with the interpolated place from the Nautical Almanac.*

| 1836 | Madras Mean Time of Observation. | A. R. from Observation. | A. R. from N. A. | Error of N. A. | N. P. D. from Observation. | N. P. D from N. A. | Error of N. A. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | *h. m. s.* | ″ | ″ | ° ′ ″ | ″ | ″ | |
| Sep. 16 | 10 33 18,2 | 22 16 0,62 | 4,23 | +3,61 | 101 37 29,65 | 21,93 | — 7,72 | |
| 23 | 4 51,0 | 15 5,11 | 8,76 | 3,65 | 42 34,57 | 26,20 | 8,37 | |
| Oct. 1 | 9 32 26,9 | 14 7,93 | 11,49 | 3,56 | 47 43,17 | 36,12 | 7,05 | |
| 3 | 24 22,0 | 13 54,96 | 57,39 | 2,43 | 48 53,13 | 46,28 | 6,85 | |
| 6 | 12 15,6 | 13 35,99 | 39,73 | 3,74 | 50 32,85 | 25,72 | 7,13 | |
| 7 | 8 14,2 | 13 30,22 | 33,79 | 3,57 | 51 2,40 | 57,20 | 5,20 | |
| 8 | 4 11,3 | 13 24,49 | 28,03 | 3,54 | 51 33,63 | 27,78 | 5,85 | |
| 10 | 8 56 9,4 | 13 13,40 | 16,83 | 3,43 | 52 35,21 | 26,44 | 8,77 | |
| 11 | 52 7,9 | 13 7,90 | 11,48 | 3,58 | 53 3,26 | 54,52 | 8,74 | |
| 12 | 48 6,4 | 13 2,60 | 6,30 | 3,70 | 53 29,29 | 21,70 | 7,59 | |
| 13 | 44 6,2 | 12 57,72 | 1,26 | 3,54 | 53 55,54 | 47,88 | 7,66 | |
| 14 | 40 5,3 | 12 52,90 | 56,39 | 3,49 | 54 21,03 | 13,06 | 7,97 | |
| 15 | 36 4,8 | 12 48,43 | 51,68 | 3,25 | 54 44,75 | 37,37 | 7,38 | |
| 1837 | | | | | | | | |
| Aug. 28 | 12 11 20,8 | 22 34 28,67 | 32,89 | +4,22 | 99 51 42,94 | 27,19 | —15,75 | |
| 29 | 3 18,0 | 22 34 19,78 | 23,92 | 4,14 | 52 37,60 | 20,30 | 17,30 | |
| Sep. 13 | 11 2 5,5 | 32 6,16 | 10,41 | 4,25 | 100 5 36,65 | 21,10 | 15,55 | |
| 14 | 10 58 1,0 | 31 57,58 | 1,81 | 4,23 | 6 26,69 | 10,88 | 15,81 | |
| 21 | 29 31,7 | 30 59,38 | 3,33 | 3,95 | 12 3,89 | 47,80 | 16,09 | |
| 22 | 25 27,9 | 30 51,50 | 55,27 | 3,77 | 12 49,62 | 33,96 | 15,66 | |
| 23 | 21 24,0 | 30 43,32 | 47,29 | 3,97 | 13 38,22 | 19,62 | 18,60 | |
| 24 | 17 20,3 | 30 35,38 | 39,30 | 3,92 | 14 20,42 | 4,78 | 15,64 | |
| 27 | 5 9,0 | 30 12,10 | 16,14 | 4,04 | 16 33,32 | 16,26 | 17,06 | |

*Comparison of the Observed Right Ascension and North Polar Distance of the Moon, with the interpolated place from the Nautical Almanac.*

| 1836 | Madras Mean Time. | Limb Observed. | Observed A. R. of ☽'s Centre. | A. R. from N. A. | Error of Tables. | N. or S. Limb. | Observed N. P. D. of ☽'s Centre. | N. P. D. from N. A. | Error of Tables. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | | *h. m. s.* | *s.* | *s.* | | ° ′ ″ | ″ | ″ | |
| Jan. 2 | 11 0 18,4 | 1 | 5 46 59,37 | 58,73 | —0,64 | N. | 64 6 46,9 | 48,9 | + 2,0 | |
| 3 | 11 51 31,4 | 1 | 6 42 18,46 | 18,03 | — ,43 | N. | 65 30 40,8 | 43,2 | 2,4 | |
| 25 | 5 51 46,9 | 1 | 2 7 14,75 | 14,92 | + ,17 | S. | 79 8 —— | —— | —— | Fl. Clds. |
| 26 | 6 34 29,8 | 1 | 2 55 0,18 | 0,48 | + ,30 | N. | 74 35 —— | —— | —— | |
| 27 | 7 18 44,8 | 1 | 3 43 21,21 | 21,09 | — ,12 | S. | 69 55 —— | —— | —— | |
| 28 | 8 5 11,4 | 1 | 4 33 52,99 | 52,66 | — ,33 | S. | 66 48 21,4 | 18,6 | — 2,8 | |
| 31 | 10 36 37,1 | 1 | 7 17 35,39 | 34,73 | — ,66 | N. | 63 47 22,0 | 22,0 | 0,0 | |
| Feb. 1 | 11 28 26,5 | 1 | 8 13 29,73 | 29,17 | — ,56 | N. | 65 27 19,2 | 14,6 | — 4,6 | |
| 2 | 12 20 17,1 | Cent. | 9 8 19,24 | 18,91 | — ,33 | N. | 68 25 32,4 | 35,2 | + 2,8 | |
| 26 | 7 36 11,8 | 1 | 5 59 10,51 | 10,45 | — ,06 | S. | 63 32 29,2 | 35,9 | + 6,6 | |
| 27 | 8 27 34,0 | 1 | 6 54 38,38 | 38,51 | + ,13 | N. | 63 19 7,6 | 7,5 | — 0,1 | |
| 28 | 9 19 24,1 | 1 | 7 50 33,56 | 32,95 | — ,61 | N. | 64 27 45,0 | 43,0 | — 2,0 | |
| 29 | 10 10 40,3 | 1 | 8 45 54,09 | 53,31 | — ,78 | N. | 66 57 28,7 | 28,3 | — 0,4 | |
| Mar. 1 | 11 0 38,8 | 1 | 9 39 56,50 | 55,57 | — ,93 | N. | 70 42 3,9 | 57,9 | — 6,0 | |
| 2 | 11 49 4,4 | 1 | 10 32 25,39 | 24,61 | — ,78 | N. | 75 30 19,9 | 14,9 | — 5,0 | |
| 3 | 12 38 22,4 | 2 | 11 23 40,54 | 39,90 | — ,64 | N. | 81 8 28,2 | 27,1 | — 1,1 | |
| 25 | 6 18 10,5 | 1 | 6 31 20,65 | 20,19 | — ,46 | N. | 63 1 6,8 | 2,6 | — 4,2 | |

*Comparison of the Observed Right Ascension and North Polar Distance of the Moon continued.*

| 1836 | Madras Mean Time. | Limb Observed. | Observed A. R. of ☽'s Centre. | A. R. from N. A. | Error of Tables. | N. or S. Limb. | Observed N. P. D of ☽'s Centre. | N. P. D. from N. A. | Error of Tables. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | | *h. m. s.* | *s.* | *s.* | | ° ′ ″ | ″ | ″ | |
| Mar. 26 | 7 9 30,7 | 1 | 7 26 45,56 | 45,74 | +0,18 | N. | 63 35 38,7 | 36,2 | — 2,5 | |
| 27 | 8 0 33,2 | 1 | 8 21 52,84 | 53,11 | + ,27 | N. | 65 31 14,3 | 7,6 | — 6,7 | |
| 28 | 8 50 35,2 | 1 | 9 15 59,88 | 59,53 | — ,35 | N. | 68 43 42,1 | 38,0 | — 4,1 | |
| 29 | 9 39 20,5 | 1 | 10 8 47,36 | 46,42 | — ,94 | N. | 73 5 16,0 | 14,2 | — 1,8 | |
| 30 | 10 26 53,2 | 1 | 11 0 23,89 | 23,25 | — ,64 | N. | 78 24 41,8 | 40,0 | — 1,8 | |
| 31 | 11 13 49,9 | 1 | 11 51 24,81 | 24,29 | — ,52 | N. | 84 27 46,8 | 43,0 | — 3,8 | |
| April 1 | 12 2 9,2 | Cent. | 12 42 44,91 | 44,54 | — ,37 | N. | 90 57 27,2 | 24,7 | — 2,5 | |
| 24 | 6 41 35,1 | 1 | 4 53 1,31 | 1,10 | — ,21 | N. | 67 4 24,8 | 22,6 | — 2,2 | |
| 26 | 8 16 52,9 | 1 | 10 36 29,49 | 29,28 | — ,21 | N. | 75 43 26,6 | 22,6 | — 4,0 | |
| 27 | 9 3 11,1 | 1 | 11 26 51,58 | 50,96 | — ,62 | N. | 81 23 26,6 | 25,2 | — 1,4 | |
| 28 | 9 49 36,8 | 1 | 12 17 21,58 | 21,16 | — ,42 | N. | 87 40 2,2 | 1,1 | — 1,1 | |
| 29 | 10 37 18,4 | 1 | 13 9 6,85 | 6,59 | — ,26 | N. | 94 16 18,0 | 17,1 | — 0,9 | |
| 30 | 11 27 25,0 | 1 | 14 3 21,86 | 21,87 | + ,01 | N. | 100 59 31,1 | 35,1 | + 4,0 | |
| May 26 | 8 25 39,3 | 1 | 12 43 33,97 | 33,86 | — ,11 | N. | 91 1 44,2 | 43,7 | — 0,5 | |
| 28 | 10 4 37,5 | 1 | 14 30 45,25 | 44,96 | — ,29 | N. | 103 52 9,6 | 11,7 | + 2,1 | |
| July 26 | 10 35 18,7 | 1 | 18 54 15,57 | 15,50 | — ,07 | S. | 117 1 26,9 | 31,1 | + 4,2 | |
| Aug. 21 | 7 15 25,1 | 1 | 17 16 17,22 | 17,21 | — ,01 | N. | 116 3 25,6 | 22,9 | — 2,7 | |
| Sep. 18 | 6 10 7,3 | 1 | 18 1 11,79 | 11,70 | — ,09 | N. | 117 18 36,3 | 35,2 | — 1,1 | |
| 19 | 7 12 46,9 | 1 | 19 7 58,78 | 58,87 | + ,09 | S. | 117 10 9,6 | 9,6 | 0,0 | |
| 20 | 8 14 24,9 | 1 | 20 13 42,79 | 42,76 | — ,03 | S. | 115 4 37,2 | 29,0 | — 8,2 | |
| 22 | 10 7 26,7 | 1 | 22 14 51,33 | 51,80 | + ,47 | S. | 106 7 14,0 | 3,7 | —10,3 | |
| 23 | 10 58 6,6 | 1 | 23 9 34,23 | 34,64 | + ,41 | S. | 100 6 47,9 | 36,2 | —11,7 | |
| Oct. 17 | 5 8 37,8 | 1 | 19 54 1,84 | 1,91 | + ,07 | S. | 116 2 34,1 | 34,1 | 0,0 | |
| 18 | 7 7 17,0 | 1 | 20 56 46,03 | 46,20 | + ,17 | S. | 112 45 50,6 | 52 4 | + 1,8 | |
| 19 | 8 1 49,3 | 1 | 21 55 20,36 | 20,64 | + ,28 | S. | 108 6 2,5 | 57,2 | — 5,3 | |
| 20 | 8 52 20,8 | 1 | 22 49 54,74 | 54,68 | — ,06 | S. | 102 28 12,3 | 6,8 | — 5,5 | |
| 21 | 9 39 44,0 | 1 | 23 41 20,27 | 20,47 | + ,20 | S. | 96 16 32,0 | 25,6 | — 6,4 | |
| 22 | 10 25 7,1 | 1 | 0 30 46,95 | 46,97 | + ,02 | S. | 89 52 31,4 | 19,4 | —12,0 | |
| Nov. 17 | 7 37 48,6 | 1 | 23 25 32,91 | 33,03 | + ,12 | S. | 98 15 1,9 | 0,5 | — 1,4 | |
| 18 | 3 22 54,1 | 1 | 0 14 40,50 | 40,53 | + ,03 | S. | 91 58 54,9 | 51,1 | — 3,8 | |
| 22 | 11 21 41,3 | 1 | 3 29 45,94 | 45,68 | — ,26 | N. | 69 41 2,5 | 13,9 | +11,4 | |
| 23 | 12 12 28,7 | 2 | 4 22 28,07 | 27,28 | — ,79 | N. | 66 1 25,7 | 24,5 | — 1,2 | |
| Dec. 16 | 7 5 57,4 | 1 | 0 47 54,87 | 54,56 | — ,31 | S. | 87 30 7,8 | 4,0 | — 3,6 | |
| 17 | 7 49 25,3 | 1 | 1 35 25,93 | 26,02 | + ,09 | S. | 81 28 23,6 | 18,5 | — 5,1 | |
| 18 | 8 33 18,6 | 1 | 2 23 25,05 | 24,90 | — ,15 | S. | 75 55 31,6 | 27,6 | — 4,0 | |
| 19 | 9 18 38,8 | 1 | 3 12 48,90 | 48,78 | — ,12 | S. | 71 4 20,5 | 14,1 | — 6,4 | |
| 20 | 10 5 58,7 | 1 | 4 4 13,34 | 12,76 | — ,58 | S. | 67 7 29,7 | 25,5 | — 4,2 | |
| 21 | 10 55 20,5 | 1 | 4 57 42,05 | 41,47 | — ,58 | N. | 64 17 12,1 | 11,1 | — 1,0 | |
| 1837 | | | | | | | | | | |
| Jan. 17 | 8 51 51,2 | 1 | 4 40 18,98 | 19,22 | + ,24 | S. | 64 52 —— | —— | | First obs. of P. M. at Transit. |
| 18 | 9 42 6,0 | 1 | 5 34 42,28 | 41,53 | — ,75 | N. | 63 0 4,6 | 4,4 | — 0,2 | |
| 19 | 10 33 19,6 | 1 | 6 29 58,78 | 58,09 | — ,69 | N. | 62 24 30,5 | 31,6 | + 1,1 | |
| 20 | 11 24 16,6 | 1 | 7 25 0,20 | 59,46 | — ,74 | N. | 63 11 1,3 | 1,3 | 0,0 | |
| 21 | 12 14 58,5 | Cent. | 8 18 40,27 | 39.59 | — ,68 | N. | 65 15 43,5 | 42,4 | — 1,1 | |
| Feb. 12 | 5 58 29,5 | 1 | 3 29 5,36 | 5,05 | — ,31 | S. | 69 13 13,9 | 12,0 | — 1,9 | |
| 13 | 6 47 16,4 | 1 | 4 21 51,26 | 51,18 | — ,08 | S. | 65 38 27,8 | 27 6 | — 0,2 | |
| 14 | 7 37 27,3 | 1 | 5 16 7,48 | 7,47 | — ,01 | S. | 63 17 21,4 | 25'6 | + 4,2 | |
| 15 | 8 28 35,5 | 1 | 6 11 20,74 | 20,70 | — ,04 | N. | 62 16 32,0 | 31,3 | — 0,7 | |

*Comparison of the Observed Right Ascension and North Polar Distance of the Moon continued.*

| 1837 | Madras Mean Time. | Limb Observed | Observed A. R. of ☽'s Centre. | A. R. from N. A. | Error of Tables. | N. or S. Limb. | Observed N. P. D. of ☽'s Centre. | N. P. D. from N. A. | Error of Tables. | REMARKS. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | | *h m. s.* | *s.* | *s.* | | ° ′ ″ | ″ | ″ | |
| Feb. 17 | 10 9 47,3 | 1 | 8 0 42,03 | 41,23 | —0,80 | N. | 64 19 52,2 | 54,8 | + 2,6 | |
| 18 | 10 57 59,8 | 1 | 8 52 57,02 | 56,03 | —0,99 | N. | 67 14 26,8 | 33,3 | + 6,5 | |
| 19 | 11 43 57,3 | 1 | 9 42 57,11 | 56,17 | —0,94 | N. | 71 11 36,0 | 38,1 | + 2,1 | |
| 21 | 13 12 9,6 | 2 | 11 17 12,90 | 12,48 | —0,42 | S. | 81 24 14 3 | 15,5 | + 1,2 | |
| Mar. 16 | 8 3 57,0 | 1 | 7 40 57,83 | 57,89 | +0.06 | N. | 63 23 17,2 | 20,5 | + 3,3 | |
| 17 | 8 52 53,3 | 1 | 8 33 57,39 | 57,20 | —0,19 | N. | 65 53 53,0 | 56,3 | + 3,3 | |
| 18 | 9 39 37,2 | 1 | 9 24 43,98 | 43,42 | —0,56 | N. | 69 31 2,7 | 7,1 | + 4,4 | |
| 19 | 10 24 12,7 | 1 | 10 13 22,10 | 21,47 | —0,63 | N. | 74 3 37,1 | 43,7 | + 6,6 | |
| 20 | 11 7 8,8 | 1 | 11 0 20,55 | 19,74 | —0,81 | N. | 79 19 49,5 | 53,0 | + 3,5 | |
| 21 | 11 50 11,2 | Cent. | 11 46 25,71 | 25,25 | —0,46 | N. | 85 7 34,6 | 33,8 | — 0,8 | |
| 27 | 16 40 26,1 | 2 | 16 59 56,80 | 56,90 | +0,10 | S. | 116 27 35,0 | 39,0 | + 4,0 | |
| 28 | 17 41 12,7 | 2 | 18 4 47,48 | 47,48 | 0,00 | N. | 117 57 51,8 | 62,2 | +10,4 | |
| April 16 | 9 1 55,9 | 1 | 10 41 15,14 | 14,46 | —0,68 | N. | 77 1 52,5 | 58,8 | + 6,3 | |
| 18 | 10 26 3,7 | 1 | 12 13 29,11 | 28.72 | —0,39 | N. | 88 39 41,5 | 49,3 | + 7,8 | |
| 19 | 11 8 56,4 | 1 | 13 0 25,89 | 25,54 | —0,35 | N. | 94 53 31,2 | 34,0 | + 2,8 | |
| 20 | 11 54 58,4 | Cent. | 13 49 30,37 | 30,13 | —0,24 | N. | 101 3 51,6 | 58,5 | + 6,9 | |
| May 15 | 8 19 29,3 | 1 | 11 53 0.02 | 59,85 | —0,17 | N. | 85 58 56,8 | 59,5 | + 2,7 | |
| 16 | 9 1 25,6 | 1 | 12 39 1,46 | 0,90 | —0 56 | N. | 92 5 38,7 | 39,7 | + 1,0 | |
| 17 | 9 45 9,5 | 1 | 13 26 49,63 | 49,28 | —0,35 | N. | 98 17 54,1 | 58,9 | + 4,8 | |
| 23 | 15 31 19,2 | 2 | 19 35 20,52 | 19.81 | —0,71 | N. | 116 50 31.4 | 27,2 | — 4,2 | |
| 24 | 16 32 30,4 | 2 | 20 40 39,71 | 39,79 | +0.08 | N. | 113 42 21,6 | 20,4 | — 1,2 | |
| June 12 | 6 54 46,7 | 1 | 12 18 27,25 | 27,19 | —0,06 | N. | 89 31 ---- | ---- | ---- | |
| 13 | 7 36 42,6 | 1 | 13 4 28,07 | 27,65 | —0,42 | N. | 95 35 16.3 | 19,1 | + 2,8 | |
| 14 | 8 21 9,4 | 1 | 13 53 0,74 | 0,17 | —0.57 | N. | 101 36 45,3 | 50,2 | + 4,9 | |
| 15 | 9 9 32,9 | 1 | 14 45 31,34 | 30,39 | —0,95 | N. | 107 17 52,1 | 59,7 | + 7,6 | |
| 21 | 15 20 43,3 | 2 | 21 19 5,85 | 5.40 | —0,45 | S. | 110 13 35,4 | 34,3 | — 1,1 | |
| 23 | 17 6 44,8 | 2 | 23 13 23,90 | 23,61 | —0,29 | N. | 98 49 16,2 | 13,2 | — 3,0 | |
| 24 | 17 54 13.7 | 2 | 0 4 58,50 | 58,21 | —0,29 | N. | 92 9 9,5 | 56,5 | —13,0 | |
| July 11 | 6 13 37,6 | 1 | 13 31 33,52 | 33,23 | —0,29 | N. | 99 16 36,9 | 30,8 | — 6,1 | |
| 13 | 7 48 37,9 | 1 | 15 14 48,14 | 47,83 | —0,31 | N. | 110 10 32,4 | 36,6 | + 4,2 | |
| 14 | 8 44 2,5 | 1 | 16 14 21.48 | 21,01 | —0.47 | N. | 114 24 45,7 | 49,3 | + 3,6 | |
| 15 | 9 45 12,7 | 1 | 17 19 44,06 | 43,79 | —0,27 | N. | 117 10 38,9 | 45,9 | + 7,0 | |
| 16 | 10 50 48,2 | 1 | 18 29 25,21 | 25,01 | —0,20 | S. | 117 58 20,3 | 26,9 | + 6,6 | |
| Aug. 8 | 4 53 31,4 | 1 | 14 1 38,78 | 38,65 | —0,13 | N. | 103 8 1,9 | 5,5 | + 3,6 | |
| 9 | 5 40 3,3 | 1 | 14 52 16,95 | 16,65 | —0,30 | N. | 108 25 22,9 | 19,1 | — 3,8 | |
| 10 | 6 31 21,7 | 1 | 15 47 43,47 | 43,70 | +0,23 | N. | 112 57 32,4 | 38,8 | + 6,4 | |
| 11 | 7 28 12,2 | 1 | 16 48 42,95 | 42,95 | 0.00 | N. | 116 18 50,5 | 55,1 | + 4,6 | |
| 12 | 8 30 10,4 | 1 | 17 54 50,04 | 49,96 | —0,08 | S. | 118 0 27,2 | 38,9 | +11.7 | |
| 13 | 9 35 15,1 | 1 | 19 44 2,60 | 2,77 | +0,17 | S. | 117 39 1,5 | 3,2 | + 1,7 | |
| 20 | 16 2 55,2 | 2 | 1 58 2,48 | 2,23 | —0,25 | N. | 77 10 54,9 | 56,4 | + 1,5 | |
| 21 | 16 51 39,0 | 2 | 2 50 50,84 | 50,59 | —0,25 | N. | 71 36 54,3 | 51,1 | — 3,2 | |
| 22 | 17 41 45,2 | 2 | 3 44 58,30 | 58,79 | +0,49 | N. | 67 8 16,7 | 14,6 | — 2,1 | |
| Sep. 9 | 7 19 5,6 | 1 | 18 33 56,93 | 56,84 | —0,09 | S. | 118 14 38,6 | 33,2 | — 5,4 | |
| 12 | 10 22 39,3 | 1 | 21 49 46,48 | 46,46 | —0,02 | S. | 107 53 25,8 | 17,5 | — 8,3 | |
| 13 | 11 17 38,4 | 1 | 22 48 49,50 | 49,61 | +0,11 | S. | 101 25 42,4 | 40,5 | — 1,9 | |
| 14 | 12 11 52,7 | 2 | 23 44 54,88 | 54,89 | +0,01 | N. | 94 17 35,6 | 26,5 | — 9,1 | |
| 15 | 13 1 52,5 | 2 | 0 39 0,32 | 0,37 | +0,05 | N. | 87 1 49,0 | 37,8 | —11,2 | |
| 16 | 13 51 13,6 | 2 | 1 32 26,80 | 26,80 | 0,00 | N. | 80 5 58,0 | 43,6 | —14,4 | |
| 17 | 14 41 4,8 | 2 | 2 26 21,28 | 21,07 | —0,21 | N. | 73 53 34,2 | 28,3 | — 5,9 | |
| 18 | 15 32 8,8 | 2 | 3 21 29,36 | 29,20 | —0,16 | N. | 68 44 19,0 | 13,0 | — 6,0 | |

*Comparison of the Observed Right Ascension and North Polar Distance of the Moon continued.*

| 1837 | Madras Mean Time. | Limb Observed. | Observed A. R. of ☽'s Centre. | A. R. from N. A. | Error of Tables. | N. or S. Limb. | Observed N. P. D. of ☽'s Centre. | N. P. D. from N. A. | Error of Tables. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *h. m. s.* | | *h. m. s.* | *s.* | *s.* | | ° ′ ″ | ″ | ″ | |
| Sep. 19 | 16 24 41,1 | 2 | 4 18 6,05 | 5,76 | —0,29 | N. | 64 53 5,1 | 56,2 | — 8,9 | |
| 20 | 17 18 17,3 | 2 | 5 15 47,13 | 46,89 | —0,24 | N. | 62 29 37,8 | 35,7 | — 2,1 | |
| Oct. 9 | 8 10 17,9 | 1 | 21 23 30,59 | 30,90 | +0,31 | S. | 110 22 37,4 | 34,4 | — 3,0 | |
| 10 | 9 4 50,6 | 1 | 22 22 6,68 | 6,25 | —0,43 | S. | 104 34 14,6 | 3,7 | —10,9 | |
| 12 | 10 46 17,3 | 1 | 0 11 41,71 | 41,41 | —0,30 | S. | 90 42 42,6 | 36,0 | — 6,6 | |
| 13 | 11 35 26,4 | 1 | 1 4 54,41 | 54,50 | +0,09 | S. | 83 35 17,4 | 10,1 | — 7,3 | |
| Nov. 6 | 6 58 41,0 | 1 | 22 2 3,49 | 3,23 | —0,26 | S. | 106 40 57,1 | 53,6 | — 3,5 | |
| 7 | 7 49 34,2 | 1 | 22 56 59,54 | 59,40 | —0,14 | S. | 100 26 36,5 | 37,3 | + 0,8 | |
| Dec. 16 | 15 54 22,6 | 2 | 9 34 45,03 | 44,25 | —0,78 | S. | 70 56 54,3 | 55,3 | + 1,0 | |

On looking over the observations of the last seven years; there have I find been a few observations of the Transit of both limbs of the Moon over the Meridian, which, in the former volumes of the Madras Results I had omitted; they are as follows.

| Date. | Madras Mean Time. | Sidereal Time of ☾'s Diam. passing. |
|---|---|---|
| 1831 | *h. m. s.* | *m. s.* |
| February 26 | 12 17 48,7 | 2 7,48 |
| April 26 | 11 53 47,9 | 3,06 |
| May 26 | 12 5 34,1 | 7,80 |
| September 21 | 11 51 30,6 | 12,48 |
| 1833 | | |
| May 3 | 11 49 32,2 | 14,26 |
| July 1 | 11 50 39,6 | 15,70 |
| 1834 | | |
| February 23 | 12 15 27,8 | 23,48 |
| 1835 | | |
| March 14 | 12 9 11,4 | 18,16 |
| April 13 | 12 30 47,8 | 20,02 |
| May 12 | 12 6 2,7 | 26,62 |
| June 10 | 11 46 29,1 | 31,68 |
| 1836 | | |
| February 2 | 12 20 17,1 | 15,68 |
| April 1 | 12 2 9,2 | 13,16 |
| 1837 | | |
| January 21 | 12 14 45,5 | 14,70 |
| March 21 | 11 50 11,2 | 5,32 |
| April 20 | 11 54 58,4 | 12,08 |

In addition to the above,—observation of the Moon, and of several Stars culminating near to her *(Moon culminating Stars)*, have been made, as follows.

## *Moon Culminating Stars.*

| 1836. | NAMES. | Observed Transit. | 1836. | NAMES. | Observed Transit. |
|---|---|---|---|---|---|
| | | *h. m. s.* | | | *h. m. s.* |
| Jan. 2 | ζ Tauri | 5 29 13,01 | March 2 | Moon 1st Limb | 10 29 33,14 |
| | c —— | 5 44 23,67 | | *n* Leonis | 11 5 29,57 |
| | Moon 1st Limb | 5 47 15,50 | | ι —— | 11 13 35,05 |
| | μ Geminor. | 6 14 24,52 | 3 | *n* Leonis | 11 5 24,89 |
| 3 | μ —— | 6 14 25,56 | | ι —— | 11 13 30,22 |
| | Moon 1st Limb | 6 42 35,02 | | Moon 2nd Limb | 11 22 50,81 |
| 25 | Moon 1st Limb | 2 7 8,55 | 25 | Moon 1st Limb | 6 29 4,45 |
| | 38 Arietis | 2 35 55,38 | | δ Geminor. | 7 9 10,07 |
| | π —— | 2 40 2,41 | | ι —— | 7 15 22,75 |
| 26 | 38 —— | 2 35 47,93 | 26 | δ —— | 7 9 6,03 |
| | π —— | 2 39 54,60 | | ι —— | 7 14 18,59 |
| | Moon 1st Limb | 2 53 44,84 | | Moon 1st Limb | 7 24 25,30 |
| | η Tauri | 3 37 30,60 | | 6 Cancri | 7 52 12,86 |
| 27 | η —— | 3 37 24,78 | | λ —— | 8 9 33,42 |
| | Moon 1st Limb | 3 41 58,60 | 27 | 6 —— | 7 52 8,63 |
| | ε Tauri | 4 18 42,89 | | λ —— | 8 9 29,20 |
| 28 | δ¹ —— | 4 13 7,20 | | Moon 1st Limb | 8 19 29,62 |
| | ε —— | 4 18 40,86 | | ξ Cancri | 8 58 37,92 |
| | Moon 1st Limb | 4 32 26,88 | | *q* —— | 9 8 32,11 |
| 31 | τ Geminor. | 7 0 16,26 | 28 | Moon 1st Limb | 9 13 32,27 |
| | δ —— | 7 9 54,75 | 29 | η Leonis | 9 56 57,56 |
| | Moon 1st Limb | 7 16 3,47 | | Moon 1st Limb | 10 6 16,16 |
| | φ Geminor. | 7 43 2,67 | | γ Leonis | 10 9 29,95 |
| | 6 Cancri | 7 53 1,65 | 30 | *k* —— | 10 36 13,85 |
| Feb. 1 | φ Geminor. | 7 43 0,29 | | Moon 1st Limb | 10 47 48,80 |
| | 6 Cancri | 7 52 59,29 | | *v* Virginis | 11 35 55,71 |
| | Moon 1st Limb | 8 11 55,77 | | *b* —— | 11 50 2,89 |
| | ξ Cancri | 8 59 28,24 | 31 | *v* —— | 11 35 50,90 |
| 2 | ξ —— | 8 58 25,24 | | Moon 1st Limb | 11 48 45,11 |
| | Moon Cent. | 9 7 49,79 | | *b* Virginis | 11 49 58,01 |
| 26 | c Tauri | 5 41 38,08 | | c —— | 12 10 26,53 |
| | Moon 1st Limb | 5 56 40,18 | | γ¹ —— | 12 31 46,41 |
| | ε Geminor. | 6 32 26,57 | April 1 | *a* —— | 12 10 21,61 |
| 27 | ε —— | 6 32 22,59 | | γ¹ —— | 12 31 41,49 |
| | Moon 1st Limb | 6 52 3,55 | | Moon Cent. | 12 40 33,93 |
| 28 | φ Geminor. | 7 41 55,38 | | *a* Virginis | 13 14 53,68 |
| | Moon 1st Limb | 7 47 54,28 | | *m* —— | 13 31 20,80 |
| | η Cancri | 8 21 41,19 | 24 | Moon 1st Limb | 8 53 33,70 |
| | γ —— | 8 23 15,22 | | λ Leonis | 9 23 59,84 |
| 29 | η —— | 8 21 36,24 | | ψ —— | 9 36 26,37 |
| | γ —— | 8 32 10,50 | 26 | γ —— | 10 12 44,47 |
| | Moon 1st Limb | 8 43 10,41 | | ρ —— | 10 23 59,39 |
| | λ Leonis | 9 20 44,34 | | Moon 1st Limb | 10 37 14,02 |
| March 1 | λ —— | 9 20 39,32 | 27 | σ Leonis | 11 14 35,98 |
| | Moon 1st Limb | 9 37 8,50 | | τ —— | 11 21 25,43 |
| | γ Leonis | 10 9 13,46 | | Moon 1st Limb | 11 27 42,33 |
| | ρ —— | 10 23 28,33 | | *o* Virginis | 11 58 46,87 |
| 2 | γ —— | 10 9 8,38 | | η —— | 12 13 26,73 |
| | ρ —— | 10 22 23,21 | 28 | *o* —— | 11 58 52,81 |

| 1836 | NAMES. | | Observed Transit. |
|---|---|---|---|
| | | | h. m. s. |
| April 28 | $\eta$ Virginis | | 12 13 32,73 |
| | Moon | 1st Limb | 12 18 18,26 |
| | $\delta$ Virginis | | 12 49 22,75 |
| | $\theta$ —— | | 13 3 30,02 |
| 29 | $\delta$ —— | | 12 49 28,55 |
| | $\theta$ —— | | 13 3 35,85 |
| | Moon | 1st Limb | 13 10 8,52 |
| | $k$ Virginis | | 14 6 17,56 |
| | $\iota$ —— | | 14 9 33,62 |
| 30 | Moon | 1st Limb | 14 4 27,03 |
| | $\iota$ Virginis | | 14 9 38,84 |
| | $\alpha^2$ Libræ | | 14 44 2,77 |
| | $\xi^2$ —— | | 14 50 6,46 |
| May 26 | $\gamma^1$ Virginis | | 12 32 50,72 |
| | Moon | 1st Limb | 12 41 58,73 |
| 28 | $k$ Virginis | | 14 3 30,03 |
| | $\lambda$ —— | | 14 9 35,47 |
| | Moon | 1st Limb | 14 28 56,56 |
| | $\iota^1$ Libræ | | 15 2 13,83 |
| | $\gamma^1$ —— | | 15 25 42,39 |
| July 26 | $\lambda$ Sagittarii | | 18 17 10,77 |
| | $\sigma$ —— | | 18 44 25,29 |
| | Moon | 1st Limb | 18 52 17,82 |
| | 59 Sagittarii | | 19 46 12,30 |
| | $c$ —— | | 19 51 53,71 |
| Aug. 21 | $\theta$ Ophiuchi | | 17 11 38,30 |
| | Moon | 1st Limb | 17 14 44,29 |
| | $\lambda$ Sagittarii | | 18 17 33,19 |
| Sep. 18 | $\gamma^2$ —— | | 17 55 20,02 |
| | Moon | 1st Limb | 17 59 0,75 |
| 19 | $\sigma$ Sagittarii | | 18 45 8,33 |
| | $\zeta$ —— | | 18 52 13,07 |
| | Moon | 1st Limb | 19 6 46,20 |
| 20 | Moon | 1st Limb | 20 12 29,35 |
| 22 | $\iota$ Aquarii | | 21 57 31,05 |
| | $\theta$ —— | | 22 8 6,97 |
| | Moon | 1st Limb | 22 13 38,00 |
| 23 | $\delta$ Aquarii | | 23 45 50,72 |
| | $\phi$ —— | | 23 5 43,78 |
| | Moon | 1st Limb | 23 8 20,36 |
| Oct. 17 | $h^2$ Sagittarii | | 19 25 31,58 |
| | $c$ —— | | 19 51 22,53 |
| | Moon | 1st Limb | 19 51 36,35 |
| | $\psi$ Capricorni | | 20 35 11,38 |
| | $\eta$ —— | | 20 54 52,59 |
| 18 | $\psi$ —— | | 20 35 11,16 |
| | Moon | 1st Limb | 20 54 22,65 |
| | $\delta$ Capricorni | | 21 36 47,84 |
| 19 | $\gamma$ —— | | 21 29 47,86 |
| | $\delta$ —— | | 21 36 47,08 |
| | Moon | 1st Limb | 21 52 58,74 |
| | $\tau^2$ Aquarii | | 22 39 42,49 |
| | $\delta$ —— | | 22 44 44,72 |
| 20 | $\tau^2$ —— | | 22 39 40,93 |

| 1836 | NAMES. | | Observed Transit. |
|---|---|---|---|
| | | | m h. s. |
| Oct. 20 | $\delta$ Aquarii | | 22 44 43,27 |
| | Moon | 1st Limb | 22 47 33,67 |
| | $n$ Piscium | | 23 38 17,48 |
| 21 | $\psi^3$ Aquarii | | 23 9 11,17 |
| | Moon | 1st Limb | 23 38 59,61 |
| 22 | $t$ Piscium | | 0 15 44,06 |
| | Moon | 1st Limb | 0 28 25,60 |
| | $e$ Piscium | | 0 58 39,88 |
| Nov. 17 | $\phi$ Aquarii | | 23 4 46,89 |
| | $\psi^3$ —— | | 23 9 22,71 |
| | Moon | 1st Limb | 23 23 24,05 |
| | $t$ Piscium | | 0 15 57,44 |
| 18 | Moon | 1st Limb | 0 12 36,69 |
| | $m$ Ceti | | 0 43 39,31 |
| | $\varepsilon$ Piscium | | 0 53 27,76 |
| 22 | Moon | 1st Limb | 0 27 45,62 |
| | A$^1$ Tauri | | 3 54 8,14 |
| | $\omega^2$ —— | | 4 6 47,09 |
| 23 | A$^1$ Tauri | | 3 54 9,23 |
| | $\omega^2$ —— | | 4 6 48,21 |
| | Moon | 2nd Limb | 4 23 38,42 |
| Dec. 16 | $m$ Ceti | | 0 43 42,30 |
| | Moon | 1st Limb | 0 45 54,53 |
| 17 | $\mu$ Piscium | | 1 20 35,09 |
| | $\gamma$ —— | | 1 31 53,72 |
| | Moon | 1st Limb | 1 33 20,55 |
| | $\xi^1$ Ceti | | 2 3 18,59 |
| | $\xi^2$ —— | | 2 18 26,47 |
| 18 | $\xi^1$ —— | | 2 3 14,95 |
| | $\xi^2$ —— | | 2 18 22,81 |
| | Moon | 1st Limb | 2 21 15,27 |
| | $\varepsilon$ Arietis | | 2 48 47,25 |
| 19 | $\delta$ —— | | 3 1 8,78 |
| | Moon | 1st Limb | 3 10 34,98 |
| 20 | A$^1$ Tauri | | 3 53 50,16 |
| | Moon | 1st Limb | 3 1 54,25 |
| | $\omega^2$ Tauri | | 4 6 29,17 |
| 21 | $\tau$ —— | | 4 31 10,42 |
| | Moon | 1st Limb | 4 55 17,94 |
| 1837 | | | |
| Jan. 17 | Moon | 1st Limb | 4 40 24,70 |
| 18 | $\beta$ Tauri | | 5 17 1,95 |
| | $\zeta$ —— | | 5 28 56,52 |
| | Moon | 1st Limb | 5 34 37,42 |
| 19 | $k$ Aurigæ | | 6 5 58,19 |
| | $\mu$ Geminor. | | 6 14 4,46 |
| | Moon | 1st Limb | 6 29 50,14 |
| | $\delta$ Geminor. | | 7 11 21,60 |
| | $\alpha^2$ —— | | 7 25 10,10 |
| 20 | $\delta$ —— | | 7 11 18,54 |
| | Moon | 1st Limb | 7 24 48,93 |
| | 6 Cancri | | 7 54 25,57 |
| 21 | Moon | Cent. | 8 19 32,79 |
| | $\rho^4$ Cancri | | 8 46 46,70 |
| | $\xi$ —— | | 9 0 52,11 |

| 1837 | NAMES. | | Observed Transit. | 1837 | NAMES. | | Observed Transit. |
|---|---|---|---|---|---|---|---|
| | | | *h. m. s.* | | | | *h. m. s.* |
| Feb. 13 | $\omega^2$ Tauri | | 4 8 18,97 | Mar. 27 | $\alpha$ Scorpii | | 16 17 44,87 |
| | $v^1$ —— | | 4 17 9,52 | | $\tau$ —— | | 16 24 4,09 |
| | Moon | 1st Limb | 4 21 21,24 | | Moon | 2nd Limb | 16 59 26,51 |
| | $n$ Tauri | | 5 10 5,32 | | $p$ Sagittarii | | 17 35 37,07 |
| 14 | $\iota$ —— | | 4 53 57,88 | 28 | $p$ —— | | 17 35 31,34 |
| | $n$ —— | | 5 10 5,82 | | $\gamma^2$ —— | | 17 53 33,06 |
| | Moon | 1st Limb | 5 15 37,09 | | Moon | 2nd Limb | 18 4 12,64 |
| | $c$ Tauri | | 5 43 42,76 | April 16 | Moon | 1st Limb | 10 39 5,00 |
| | $\eta$ Geminor. | | 6 5 39,08 | | $n$ Leonis | | 11 6 12,96 |
| 15 | $c$ Tauri | | 5 43 42,05 | | $\tau$ —— | | 11 18 26,08 |
| | $\eta$ Geminor. | | 6 5 39,37 | 18 | $o$ Virginis | | 11 55 43,62 |
| | Moon | 1st Limb | 6 10 50,37 | | Moon | 1st Limb | 12 11 15,79 |
| | $\varepsilon$ Geminor. | | 6 34 31,45 | | $\gamma$ Virginis | | 12 32 13,62 |
| 17 | $\beta$ —— | | 7 35 57,51 | | $\delta$ —— | | 12 46 13,03 |
| | $\phi$ —— | | 7 44 8,44 | 19 | $\gamma^1$ —— | | 12 32 11,79 |
| | Moon | 1st Limb | 8 0 13,00 | | $\delta$ —— | | 12 46 11,28 |
| | $\delta$ Cancri | | 8 36 2,36 | | Moon | 1st Limb | 12 58 9,91 |
| | $\rho^4$ —— | | 8 46 30,95 | | $\alpha$ Virginis | | 13 15 24,48 |
| 18 | $\delta$ —— | | 8 36 2,18 | | $\zeta$ —— | | 13 25 11,10 |
| | $\rho^4$ —— | | 8 46 30,55 | 20 | $\alpha$ —— | | 13 15 22,97 |
| | Moon | 1st Limb | 8 52 29,17 | | $\zeta$ —— | | 13 25 9,92 |
| | $\lambda$ Leonis | | 9 23 2,01 | | Moon | Cent. | 13 48 14,95 |
| | $o$ —— | | 9 33 4,26 | | $\lambda$ Virginis | | 14 9 3,90 |
| 19 | $\lambda$ —— | | 9 23 2,24 | 25 | Moon | 2nd Limb | 14 |
| | $o$ —— | | 9 33 4,35 | May 15 | $\xi^1$ Virginis | | 11 36 37,63 |
| | Moon | 1st Limb | 9 42 30,76 | | $\beta$ —— | | 11 41 57,00 |
| | $\gamma$ Leonis | | 10 11 36,36 | | Moon | 1st Limb | 11 51 42,59 |
| 21 | $\chi$ —— | | 10 57 15,45 | 16 | $\eta$ Virginis | | 12 11 15,91 |
| | $\iota$ —— | | 11 16 4,41 | | Moon | 1st Limb | 12 37 40,40 |
| | Moon | 2nd Limb | 11 18 51,23 | | $\theta$ Virginis | | 13 1 12,96 |
| | $o$ Virginis | | 11 57 33,16 | | $\alpha$ —— | | 13 16 18,64 |
| Mar. 16 | Moon | 1st Limb | 7 39 57,32 | 17 | $\theta$ —— | | 13 1 10,30 |
| 17 | $\lambda$ Cancri | | 8 9 52,44 | | $\alpha$ —— | | 13 16 16,25 |
| | $\phi^2$ —— | | 8 15 57,80 | | Moon | 1st Limb | 13 25 24,35 |
| | Moon | 1st Limb | 8 31 53,89 | | $k$ Virginis | | 14 3 52,11 |
| | $\xi$ Cancri | | 8 59 1,28 | | $\lambda$ —— | | 14 9 57,23 |
| | $q$ —— | | 9 8 54,95 | 23 | $h^2$ Sagittarii | | 19 26 10,72 |
| 18 | $\xi$ —— | | 8 58 57,76 | | Moon | 2nd Limb | 19 35 54,80 |
| | $q$ —— | | 9 8 51,64 | 24 | $\psi$ Capricorni | | 20 35 46,51 |
| | Moon | 1st Limb | 9 22 38,51 | | Moon | 2nd Limb | 20 41 9,58 |
| 19 | $\pi$ Leonis | | 9 50 30,56 | June 12 | Moon | 1st Limb | 12 15 52,27 |
| | $\alpha$ —— | | 9 58 35,96 | | $\kappa$ Virginis | | 12 29 16,90 |
| | Moon | 1st Limb | 10 11 13,53 | | $\delta$ —— | | 12 45 50,32 |
| | $k$ Leonis | | 10 36 41,88 | 13 | Moon | 1st Limb | 13 1 48,38 |
| | $c$ —— | | 10 51 12,55 | | $\alpha$ Virginis | | 13 15 0,38 |
| 20 | $k$ —— | | 10 36 37,58 | 14 | $\alpha$ —— | | 13 14 57,47 |
| | $c$ —— | | 10 51 8,22 | | Moon | 1st Limb | 13 50 15,90 |
| | Moon | 1st Limb | 10 58 8,36 | | $\lambda$ Virginis | | 14 8 38,76 |
| | $v$ Leonis | | 11 27 26,64 | | $\alpha^2$ Libræ | | 14 40 13,12 |
| | $\beta$ Virginis | | 11 41 2,66 | 15 | $\lambda$ Virginis | | 14 8 35,54 |
| 21 | $v$ Leonis | | 11 27 22,94 | | Moon | 1st Limb | 14 42 40 48 |
| | $\beta$ Virginis | | 11 41 59,06 | | $\gamma$ Libræ | | 14 52 50,45 |
| | Moon | Cent. | 11 45 11,15 | | $\beta$ —— | | 15 6 32,22 |
| | $\eta$ Virginis | | 12 10 20,88 | 21 | $\psi$ Capricorni | | 20 34 25,13 |

| 1837 | | NAMES. | | Observed Transit. h. m. s. |
|---|---|---|---|---|
| June | 21 | ζ Capricorni | | 21 15 20,04 |
| | | Moon | 2nd Limb | 21 18 12,62 |
| | | ι Aquarii | | 21 55 36,10 |
| | 23 | Moon | 2nd Limb | 23 14 4,70 |
| | 24 | τ Piscium | | 23 53 7,21 |
| | | Moon | 2nd Limb | 0 5 32,47 |
| | | ι Ceti | | 0 10 38,41 |
| July | 11 | α Virginis | | 13 15 14,62 |
| | | Moon | 1st Limb | 13 29 7,87 |
| | | Virginis | | 14 2 50,67 |
| | | λ —— | | 14 8 56,14 |
| | 13 | $\alpha^2$ Libræ | | 14 40 24,09 |
| | 20 | —— | | 14 53 4,61 |
| | | Moon | 1st Limb | 15 12 10,60 |
| | | π Scorpii | | 15 47 32,52 |
| | | $\beta^1$ —— | | 15 54 30,36 |
| | 14 | π —— | | 15 47 29,08 |
| | | $\beta^1$ —— | | 15 54 26,86 |
| | | Moon | 1st Limb | 16 11 37,00 |
| | | A Ophiuchi | | 17 3 49,01 |
| | | θ —— | | 17 10 29,43 |
| | 15 | A —— | | 17 4 37,25 |
| | | θ —— | | 17 10 25,03 |
| | | Moon | 1st Limb | 17 16 52,42 |
| | | $\gamma^2$ Sagittarii | | 17 54 45,23 |
| | | δ —— | | 18 8 58,36 |
| | 16 | $\gamma^2$ —— | | 17 53 40,77 |
| | | δ —— | | 18 8 53,95 |
| | | Moon | 1st Limb | 18 26 27,22 |
| | | τ Sagittarii | | 18 55 5,88 |
| Aug. | 8 | Moon | 1st Limb | 14 0 11,98 |
| | | $\alpha^2$ Libræ | | 14 41 29,89 |
| | 20 | —— | | 14 54 10,36 |
| | 9 | $\alpha^2$ —— | | 14 41 28,15 |
| | | Moon | 1st Limb | 14 50 45,90 |
| | 20 | Libræ | | 14 54 8,74 |
| | | k Libræ | | 15 32 10,20 |
| | | b Scorpii | | 15 40 47,71 |
| | 10 | k Libræ | | 15 32 8,93 |
| | | b Scorpii | | 15 40 46,35 |
| | | Moon | 1st Limb | 15 46 8,07 |
| | | α Scorpii | | 16 19 0,73 |
| | | τ —— | | 16 25 20,17 |
| | 11 | α —— | | 16 18 59,27 |
| | | τ —— | | 16 25 18,69 |
| | | Moon | 1st Limb | 16 47 2,86 |
| | | θ Ophiuchi | | 17 11 34,35 |
| | | $\gamma^2$ Sagittarii | | 17 54 55,80 |
| | 12 | θ Ophiuchi | | 17 11 32,77 |
| | | Moon | 1st Limb | 17 53 6,26 |
| | | $\gamma^2$ Sagittarii | | 17 54 53,40 |
| | | φ —— | | 18 35 1,31 |
| | | σ —— | | 18 44 42,38 |
| | 13 | φ Sagittarii | | 18 35 59,71 |

| 1837 | | NAMES. | | Observed Transit. h. m. s. |
|---|---|---|---|---|
| Aug. | 13 | Moon | 1st Limb | 19 2 16,36 |
| | 20 | o Piscium | | 1 36 8,09 |
| | | $\gamma^1$ Arietis | | 1 43 56,18 |
| | | Moon | 2d Limb | 1 58 25,88 |
| | | ε Arietis | | 2 49 14,24 |
| | 21 | π —— | | 2 39 30,21 |
| | | Moon | 2d Limb | 2 51 12,53 |
| | | g Arietis | | 3 13 59,28 |
| | | η Tauri | | 3 37 5,83 |
| | 22 | g Arietis | | 3 13 58,30 |
| | | η Tauri | | 3 37 4,87 |
| | | Moon | 2d Limb | 3 45 20,55 |
| | | $\upsilon^1$ Tauri | | 4 15 50,06 |
| | 23 | Moon | 2d Limb | 4 40 57,52 |
| Sep. | 9 | λ Sagittarii | | 18 16 48,50 |
| | | Moon | 1st Limb | 18 31 34,67 |
| | | π Sagittarii | | 18 58 57,58 |
| | | $h^2$ —— | | 19 25 40,86 |
| | 12 | ζ Capricorni | | 21 16 9,59 |
| | | δ —— | | 21 36 50,65 |
| | | Moon | 1st Limb | 21 47 21,92 |
| | 13 | σ Aquarii | | 22 20 46,81 |
| | | δ —— | | 22 44 45,77 |
| | | Moon | 1st Limb | 22 46 24,36 |
| | 14 | $\psi^3$ Aquarii | | 23 9 12,22 |
| | | n Piscium | | 23 38 17,04 |
| | | Moon | 2d Limb | 23 44 41,56 |
| | | n Ceti | | 0 20 26,43 |
| | | δ Piscium | | 0 38 57,03 |
| | 15 | n Ceti | | 0 20 24,07 |
| | | Moon | 2d Limb | 0 38 43,56 |
| | | μ Piscium | | 1 20 19,36 |
| | | ν —— | | 1 31 37,50 |
| | 16 | μ —— | | 1 20 16,30 |
| | | Moon | 2d Limb | 1 32 6,86 |
| | | $\xi^1$ Ceti | | 2 2 59,07 |
| | | ν Arietis | | 2 28 11,46 |
| | 17 | $\xi^1$ Ceti | | 2 2 57,53 |
| | | Moon | 2d Limb | 2 26 0,30 |
| | | δ Arietis | | 3 0 54,49 |
| | | g —— | | 3 13 17,10 |
| | 18 | δ —— | | 3 0 52,99 |
| | | g —— | | 3 13 15,34 |
| | | Moon | 2d Limb | 3 21 7,74 |
| | | $A^1$ Tauri | | 3 53 37,56 |
| | | $\upsilon^1$ —— | | 4 15 7,11 |
| | 19 | $A^1$ Tauri | | 3 53 35,70 |
| | | $\upsilon^1$ —— | | 4 14 5,41 |
| | | Moon | 2d Limb | 4 17 43,20 |
| | | ν Tauri | | 4 51 51 07 |
| | | β —— | | 5 14 30,80 |
| | 20 | β —— | | 5 14 29,09 |
| | | Moon | 2d Limb | 5 15 22,79 |
| | | c Tauri | | 5 41 34,29 |

| 1837 | NAMES. | Observed Transit. | 1837 | NAMES. | Observed Transit. |
|---|---|---|---|---|---|
| | | h. m. s. | | | h. m. s. |
| Sep. 21 | C Tauri | 5 41 32,93 | Oct. 13 | Piscium | 1 20 46,00 |
| | $k$ Aurigæ | 6 3 27,21 | | $\gamma^1$ Arietis | 1 42 35.69 |
| | Moon 2d Limb | 6 13 7,87 | Nov. 6 | $\varepsilon$ Capricorni | 21 24 42,45 |
| | $\varepsilon$ Geminor. | 6 32 21,52 | | $\delta$ —— | 21 34 47.74 |
| Oct. 9 | $\eta$ Capricorni | 20 53 10,90 | | Moon 1st Limb | 21 57 38,79 |
| | $\zeta$ —— | 21 15 24,88 | | $\sigma$ Aquarii | 22 18 46,53 |
| | Moon 1st Limb | 21 20 21,67 | | $\lambda$ —— | 22 40 52,00 |
| | $\iota$ Aquarii | 21 55 41,35 | 7 | $\sigma$ —— | 22 18 45,02 |
| | $\theta$ —— | 22 6 17,27 | | $\lambda$ —— | 22 40 50,69 |
| 10 | $\theta$ —— | 22 6 16,07 | | Moon 1st Limb | 22 52 34,96 |
| | Moon 1st Limb | 22 18 58,34 | | $n$ Piscium | 23 36 18,13 |
| | $\lambda$ Aquarii | 22 42 8,91 | Dec. 14 | $\alpha^2$ Geminor. | 7 23 21,05 |
| | $\psi^3$ —— | 23 8 31,28 | | $k$ —— | 7 33 45,12 |
| 12 | $n$ Piscium | 23 37 34,20 | | Moon 2d Limb | 7 51 25,51 |
| | $r$ —— | 23 51 36,41 | | $\phi^2$ Cancri | 8 16 4,23 |
| | Moon 1st Limb | 0 8 33,43 | 16 | $q$ Cancri | 9 8 56,45 |
| | * Piscium | 0 37 50,63 | | $\lambda$ Leonis | 9 21 28,49 |
| | $\varepsilon$ —— | 0 52 29,60 | | Moon 2d Limb | 9 34 47,51 |
| 13 | * —— | 0 37 50,12 | | $a$ Leonis | 9 58 2,27 |
| | $\varepsilon$ —— | 0 52 29,12 | | $\gamma$ —— | 10 10 2,15 |
| | Moon 1st Limb | 1 1 45,73 | | | |

## OBSERVATION OF THE ECLIPSES OF JUPITER'S SATELLITES *in the Years* 1836 *and* 1837.

| 1836 | Satellite. | Im. or Em. | Telescope. | Power. | Madras Mean Time. | REMARKS. |
|---|---|---|---|---|---|---|
| | | | | | h. m. s. | |
| Jan. 27 | II | Emersion. | 5 feet. | 110 | 8 10 54,3 | |
| Feb. 1 | I | Emersion. | 5 feet. | 150 | 7 56 28,3 | |
| 3 | II | Emersion. | 5 feet. | 110 | 10 47 15,9 | |
| 15 | I | Emersion. | 42 inches. | 75 | 11 46 49,6 | |
| 27 | III | Immersion. | 5 feet. | 110 | 6 35 20,4 | |
| 27 | III | Emersion. | 5 feet. | 110 | 9 48 27,2 | |
| 28 | II | Emersion. | 42 inches. | 75 | 8 0 22,6 | |
| Mar. 2 | I | Emersion. | 5 feet. | 110 | 10 5 27,8 | |
| 5 | III | Immersion. | 5 feet. | 110 | 10 32 57,9 | |
| 6 | II | Emersion. | 5 feet. | 110 | 10 33 14,3 | |
| 9 | I | Emersion. | 5 feet. | 110 | 12 0 59,1 | |
| 18 | I | Emersion. | 5 feet. | 150 | 8 25 15,6 | |
| 25 | I | Emersion. | 5 feet. | 110 | 10 20 41,6 | Moon near the Planet. |
| 29 | IV | Emersion. | 5 feet. | 150 | 8 39 35,8 | |
| 31 | II | Emersion. | 5 feet. | 150 | 7 41 19,2 | |
| April 10 | I | Emersion. | 5 feet. | 110 | 8 40 40,3 | |
| 10 | III | Emersion. | 5 feet. | 110 | 9 53 28,6 | |
| 17 | III | Immersion. | 5 feet. | 110 | 10 33 49,7 | Planet low. Clear—observation satisfactory. |

| 1836 | Satellite. | Im. or Em. | Telescope. | Power. | Madras Mean Time. | Remarks. |
|---|---|---|---|---|---|---|
| | | | | | *h.* *m.* *s.* | |
| 17 | I | Emersion. | 5 feet. | 110 | 10 36 54,2 | Planet low. Clear observation satisfactory. |
| May 19 | I | Emersion. | 42 inches. | 75 | 7 17 1,7 | |
| Oct. 12 | II | Immersion. | 5 feet. | 480 | 15 49 2,9 | |
| 13 | III | Immersion. | 42 inches. | 75 | 14 13 5,6 | |
| Nov. 6 | II | Immersion. | 42 inches. | 75 | 12 49 10,1 | |
| 25 | III | Immersion. | 5 feet. | 110 | 14 1 23,6 | |
| Nov. 25 | III | Emersion. | 5 feet. | 110 | 17 32 11,7 | |
| Dec. 1 | I | Immersion. | 5 feet. | 110 | 15 47 30,0 | |
| 5 | IV | Emersion. | 5 feet. | 110 | 16 8 20,6 | |
| 10 | I | Immersion. | 5 feet. | 110 | 12 8 40,6 | |
| 17 | I | Immersion. | 5 feet. | 110 | 14 2 39,6 | |
| 26 | I | Immersion. | 5 feet. | 110 | 10 24 13,6 | |
| 1837 | | | | | | |
| Jan. 9 | I | Immersion. | 5 feet. | 110 | 14 9 37,3 | |
| 11 | I | Immersion. | 5 feet. | 60 | 8 38 7,8 | Unsatisfactory; planet near the horizon. |
| Feb. 10 | I | Emersion. | 5 feet. | 110 | 12 57 20,5 | |
| 10 | II | Emersion. | 5 feet. | 110 | 14 49 40,0 | Dew rapidly deposited on the O. G. |
| 12 | I | Emersion. | 5 feet. | 110 | 7 25 50,4 | good observation. |
| 12 | III | Emersion. | 5 feet. | 110 | 13 13 43,5 | good observation. |
| 17 | I | Emersion. | 5 feet. | 110 | 14 51 6,9 | very good obs. |
| 19 | I | Emersion. | 42 inches. | 75 | 9 19 35,3 | The proximity of the Moon unfavorable. |
| 21 | II | Emersion. | 5 feet. | 110 | 6 44 31,3 | very good obs. |
| 26 | I | Emersion. | 5 feet. | 110 | 11 14 2,1 | good observation. |
| 27 | IV | Emersion. | 5 feet. | 110 | 10 13 58,6 | |
| Mar. 7 | I | Emersion. | 5 feet. | 110 | 7 36 53,9 | |
| 7 | I | Emersion. | 42 inches. | 70 | 7 36 54,9 | good observations. |
| 7 | II | Emersion. | 5 feet. | 110 | 11 58 36,2 | |
| 7 | II | Emersion. | 42 inches. | 70 | 11 58 41,2 | good observations. |
| 7 | I | Emersion. | 5 feet. | 70 | 9 31 24,3 | |
| 7 | I | Emersion. | 42 inches. | 110 | 9 31 31,3 | good observations. |
| 14 | II | Emersion. | 42 inches. | 110 | 14 35 48,1 | good observation. |
| 20 | III | Emersion. | 5 feet. | 110 | 9 8 18,6 | |
| 21 | I | Emersion. | 5 feet. | 110 | 11 25 48,7 | |
| 25 | II | Emersion. | 5 feet. | 60 | 6 32 54,2 | good observation. |
| 27 | III | Emersion. | 5 feet. | 60 | 13 5 26,4 | haze. |
| 28 | I | Emersion. | 5 feet. | 60 | 13 20 21,1 | haze,—planet low. |
| April 1 | II | Emersion. | 5 feet. | 60 | 9 8 53,2 | very good obs. |
| 6 | I | Emersion. | 5 feet. | 60 | 9 43 31,4 | |
| 18 | IV | Immersion. | 5 feet. | 110 | 11 36 54,2 | |
| 22 | I | Emersion. | 5 feet. | 60 | 8 2 39,4 | |
| 29 | I | Emersion. | 5 feet. | 140 | 9 58 5,3 | very good obs. |

| 1837 | Satellite. | Im. or Em. | Telescope. | Power. | Madras Mean Time. | REMARKS. |
|---|---|---|---|---|---|---|
| | | | | | *h. m. s.* | |
| May 2 | III | Emersion. | 5 feet. | 110 | 9 4 27,5 | |
| 3 | II | Emersion. | 5 feet. | 110 | 1 54 30,2 | |
| 5 | IV | Emersion. | 5 feet. | 110 | 10 22 45,2 | |
| 9 | III | Immersion. | 5 feet. | 110 | 9 31 17,1 | |
| 15 | I | Emersion. | 5 feet. | 110 | 8 15 59,4 | |
| Dec. 16 | II | Immersion. | 5 feet. | 60 | 16 24 5,3 | |
| 17 | III | Immersion. | 5 feet. | 110 | 12 47 22,4 | |
| 17 | III | Emersion. | 5 feet. | 110 | 16 12 8,2 | |
| 29 | I | Immersion. | 5 feet. | 110 | 13 25 8,3 | |

## *Occultation of Stars by the Moon.*

| | | Madras Mean Time. |
|---|---|---|
| 1836 | | *h. m. s.* |
| March 23 | Immersion of *Tauri* behind the Moon's dark limb, observed with 5 feet Achromatic power 60..... at | 8 6 32,7 |
| Oct. 13 | Immersion of $\delta$ *Scorpii* behind the Moon's dark limb, observed with 5 feet Achromatic power 110..... at | 6 32 41,3 |
| 15 | Immersion of a star in *Sagittarius* behind the Moon's dark limb, observed with 42 inch, power 75..... at | 6 48 19,1 |
| 1837 | | |
| Jan. 4 | Immersion of A *Ophiuchi* behind the Moon's enlightened limb, observed with 5 feet Achromatic power 110..... at | 17 42 39,5 |
| March 9 | Immersion of *o Piscium* behind the Moon's dark limb, observed with 5 feet Achromatic power wheel..... at | 6 59 34,3 |
| *10 | Immersion of a small star behind the Moon's dark limb, observed with 5 feet Achromatic power ..... at | 7 6 37,0 |
| †11 | Immersion of a small star behind the Moon's dark limb, observed with 5 feet Achromatic power 60..... at | 8 48 15,5 |
| April 12 | Immersion of *v Geminorum* behind the Moon's dark limb, observed with 5 feet Achromatic power 110..... at | 10 10 19,7 |

## LUNAR ECLIPSES.

### *Observation of the Eclipse of the Moon on the 24th October* 1836.

| | Madras Mean Time. |
|---|---|
| | *h. m, s.* |
| Beginning of the Eclipse..... | 6 0 37,9 |
| End of the Eclipse..... | 7 15 25,7 |

* I was watching the approach of this star to the Moon's dark border, when my attention was arrested by the appearance of a nebulosity, about as bright as a star of the 6th magnitude,—situated upon the Moon's disc, at about 4 minutes from the unenlightened edge;—on referring to a chart of the Moon, the phenomenon evidently proceeded from the spot Aristarchus; I have frequently looked for this appearance during the early age of the Moon, but have never before seen any thing to compare with the brilliancy which I have this evening witnessed.

† The same appearance continues.

The state of the air was unfavorable for accurate observations, in consequence of which, these times are little to be depended upon. Observed with 5 feet Achromatic power 60.

## *Observation of the Eclipse of the Moon on the 20th April 1837.*

| | Madras Mean Time. h. | m. | s. |
|---|---|---|---|
| Beginning of the Eclipse | 11 | 10 | 50,6 |
| Touches Grimaldus | | 12 | 30,3 |
| Covers do. | | 13 | 53,1 |
| Covers Gallilius | | 17 | 36,5 |
| Covers Aristarchus | | 28 | 3,8 |
| Touches Tycho | | 34 | 51,7 |
| Covers do. | | 35 | 46,5 |
| Touches Plato | | 48 | 56,3 |
| Covers do. | | 50 | 16,1 |
| No. 28 disappeared | | 52 | 53,7 |
| Censorinus do. | | 57 | 17,0 |
| Proclus do. | 12 | 5 | 53,6 |
| Touches Mare Christium | | 6 | 45,5 |
| Covers do. do. | | 10 | 1,0 |
| Totally Eclipsed | | 11 | 46,6 |
| End of total darkness | 14 | 49 | 26,7 |
| Covers Grimaldus | | 55 | 13,7 |
| Leaves do. | | 56 | 17,5 |
| Leaves Aristarchus | 15 | 2 | 34,5 |
| Tycho covered | | 18 | 9,9 |
| Leaves Tycho | | 19 | 7,7 |
| End of the Eclipse | | 50 | 46,8 |

The Earth's shadow was exceedingly well defined, and the air particularly clear: the times of beginning and end as well as those of contact with the various spots, are I believe, as accurate as observations of this nature will permit; but the times of "Totally Eclipsed," and "End of total darkness,"—from the rapidity with which the last thread of light was dissolved and formed, are by far the most accurate portion of the observations; these cannot I think be more than two seconds in error—

Observed with the 5 feet Achromatic with a power of 60.

## *Observation of the Eclipse of the Moon on the 13th October 1837.*

| | Madras Mean Time. h. | m. | s. |
|---|---|---|---|
| Beginning of the Eclipse | 14 | 52 | 18,6 |
| First total Immersion in dark shadow | 15 | 52 | 18,8 |
| Last total Immersion in dark shadow | 17 | 22 | 3,9 |

This observation was made during my absence from Madras—by *Ragavachariar*, the head assistant; he states that flying clouds prevented very accurate observation—

Observed with 5 feet Achromatic power 60.

*Observed North Polar Distance of the Planet Mars and of Stars situated near to his path at the opposition of* 1837.

| 1837 | Names. | Madras Mean Time. | Bar. | Thermometer. in | Thermometer. out | Observed N. P. D. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | *h. m.* | Inches. | ° | ° | ° ′ ″ | |
| Jan. 26 | ♂ Centrum | 13 16,7 | 30,050 | 71,2 | 66,7 | 71 20 27,8 | |
| | * *x* | | | | | 71 12 6,2 | |
| | *η* Leonis | | | | | 72 27 31,2 | |
| 27 | * *w* | | 30,066 | 71,0 | 67,0 | 71 8 48,5 | |
| | ♂ Centrum | 13 11,4 | | | | 71 12 20,8 | |
| | *η* Leonis | | 30,050 | 71,0 | 76,0 | 72 27 30,3 | |
| 28 | * *p* | | 30,096 | 74,0 | 71,7 | 71 0 37,0 | |
| | ♂ Centrum | 13 6,0 | 30,064 | 72,4 | 69,0 | 72 27 31,7 | |
| | *η* Leonis | | | | | 71 4 11,9 | |
| 29 | * *q* | | 30,128 | 75,2 | 73,7 | 70 53 16,0 | |
| | ♂ Centrum | 13 0,6 | | | | 70 56 6,4 | |
| | *η* Leonis | | | | | 72 27 30,3 | |
| 31 | ♂ Centrum | 12 49,6 | 30,110 | 74,8 | 71,0 | 70 39 59,4 | |
| | * *t* | | | | | 70 35 1,3 | |
| | *η* Leonis | | 30,094 | 74,8 | 69,8 | 72 27 31,7 | |
| Feb. 2 | * *k* | | 30,100 | 73,5 | 68,6 | 70 15 19,2 | |
| | ♂ Centrum | 12 38,6 | | | | 70 24 7,7 | |
| | *η* Leonis | | 30,090 | 72,0 | 68,0 | 72 27 31,7 | |
| 3 | * *k* | | 30,144 | 75,6 | 70,6 | 70 15 17,9 | |
| | ♂ Centrum | 12 33,2 | 30,126 | 74,7 | 70,0 | 70 16 20,6 | |
| | *η* Leonis | | 30,124 | 74,5 | 69,7 | 72 27 32,0 | |
| 4 | * *l* | | 30,114 | 75,0 | 73,0 | 70 1 16,7 | |
| | ♂ Centrum | 12 27,6 | 30,102 | 74,0 | 72,3 | 70 8 38,4 | |
| 5 | *δ* Cancri | | 30,032 | 74,2 | 70,6 | 71 15 52,5 | |
| | * *n* | | | | | 69 50 37,2 | |
| | ♂ Centrum | 12 22,1 | 30,010 | 74,0 | 69,7 | 70 1 5,1 | |
| 6 | *δ* Cancri | | 30,024 | 74,2 | 71,7 | 71 15 52,4 | |
| | * *n* | | 30,020 | 74,0 | 70,0 | 69 50 36,6 | |
| | ♂ Centrum | 12 16,6 | | 73,8 | | 69 53 39,5 | |
| 7 | *δ* Cancri | | 30,072 | 76,0 | 74,3 | 71 15 52,6 | |
| | ♂ Centrum | 12 11,1 | 30,064 | 75,8 | 73,7 | 69 46 22,1 | |
| | * *r* | | | | | 69 41 18,0 | |
| 8 | *δ* Cancri | | 30,116 | 76,0 | 74,3 | 71 15 53,1 | |
| | * 1141 A. S. C. | | | | | 69 31 36,9 | |
| | ♂ Centrum | 12 5,5 | 30,084 | 76,0 | 73,7 | 69 39 16,2 | |
| 9 | *δ* Cancri | | 30,094 | 75,3 | 72,0 | 71 15 52,7 | |
| | * 1141 A. S. C. | | | | | 69 31 36,1 | |
| | ♂ Centrum | 12 0,0 | 30,078 | 75,0 | 72,0 | 69 32 22,2 | |
| 10 | *δ* Cancri | | 30,092 | 77,2 | 75,5 | 71 15 51,3 | |
| | ♂ Centrum | 11 54,5 | 30,080 | 76,9 | 75,2 | 69 25 39,8 | |
| | * *o* | | 30,070 | 76,5 | 74,0 | 69 17 24,8 | |
| 11 | *δ* Cancri | | 30,012 | 77,5 | 74,6 | 71 15 51,2 | |
| | ♂ Centrum | 11 49,0 | | | | 69 19 10,2 | |
| | * *o* | | 29,994 | 77,0 | 74,0 | 69 17 24,6 | |
| 12 | *δ* Cancri | | 29,944 | 78,0 | 76,6 | 71 15 51,2 | |

*Observed North Polar Distance, of Mars, &c. continued.*

| 1837 | Names. | Madras Mean Time. | Bar. | Thermometer. in | Thermometer. out | Observed N. P. D. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | *h. m.* | Inches. | o | o | o ′ ″ | |
| Feb. 12 | ♂ Centrum | 11 43,5 | | | | 69 12 54,0 | |
| | * *m* | | | 77,7 | 76,0 | 69 10 6,5 | |
| 13 | δ Cancri | | 30,056 | 79,7 | 79,8 | 71 15 51,5 | |
| | ♂ Centrum | 11 38,0 | | | | 69 6 51,0 | |
| | * *i* | | 30,046 | 79,4 | 79,5 | 68 57 23,5 | |
| 14 | γ Cancri | | 30,110 | 79,5 | 77,6 | 67 57 46,9 | |
| | ♂ Centrum | 11 32,6 | | | | 69 1 3,3 | |
| | * *i* | | | | | 68 57 26,6 | |
| 15 | γ Cancri | | 30,130 | 78,2 | 77,0 | 67 57 47,4 | |
| | ♂ Centrum | 11 27,1 | 30,120 | | | 68 55 32,6 | |
| | * *h* | | | | | 68 47 0,0 | |
| 17 | γ Cancri | | 30,160 | 78,2 | 76,2 | 67 57 47,8 | |
| | * *e* | | | | | 68 40 19,4 | |
| | ♂ Centrum | 11 16,3 | | | 76,0 | 68 45 13,7 | |
| 18 | γ Cancri | | 30,140 | 78,5 | 75,0 | 67 57 47,2 | |
| | ♂ Centrum | 11 11,0 | 30,136 | 78,3 | 74,0 | 68 40 27,1 | |
| 19 | γ Cancri | | | | | 67 57 46,4 | |
| | ♂ Centrum | 11 5,7 | | | | 68 36 58,9 | |
| | * *g* | | 30,110 | 76,0 | 72,0 | 68 30 58,3 | |
| 20 | γ Cancri | | 30,152 | 76,8 | 72,0 | 67 57 48,2 | |
| | ♂ Centrum | 11 0,4 | | | | 68 31 46,7 | |
| | * *g* | | | | | 68 31 5,2 | |
| 21 | γ Cancri | | 30,186 | 78,1 | 75,0 | 67 57 47,9 | |
| | ♂ Centrum | 10 55,2 | 30,184 | 77,9 | 76,2 | 68 27 49,6 | |
| | * *f* | | | | | 68 26 20,9 | |
| 26 | γ Cancri | | 30,044 | 78,0 | 75,3 | 67 57 45,1 | |
| | * *b* | | | | | 68 13 4,3 | |
| | ♂ Centrum | 10 29,4 | | | | 68 12 12,8 | |
| 27 | γ Cancri | | 30,034 | 77,9 | 74,3 | 67 57 45,8 | |
| | ♂ Centrum | 10 24,4 | | | | 68 9 53,3 | |
| 28 | γ Cancri | | 30,078 | 78,2 | 74,8 | 67 57 45,4 | |
| | * *a* | | | | | 68 13 6,6 | Observed by mistake. |
| | ♂ Centrum | 10 19,5 | | | | 68 7 50,4 | |
| Mar. 1 | γ Cancri | | 30,116 | 78,2 | 77,3 | 67 57 44,1 | |
| | * *a* | | | | | 68 13 6,6 | |
| | ♂ Centrum | 10 14,6 | | | | 68 6 2,9 | |
| 4 | γ Cancri | | 30,096 | 79,7 | 78,8 | 67 57 44,4 | |
| | * *a* | | | | | 68 2 21,6 | |
| | ♂ Centrum | 10 0,3 | | 79,5 | 78,6 | 68 2 16,1 | |
| 5 | γ Cancri | | 30,116 | 80,2 | 77,5 | 67 57 43,8 | |
| | * *a* | | | | | 68 2 22,1 | |
| | ♂ Centrum | 9 55,6 | | | | 68 1 31,1 | |
| 6 | γ Cancri | | 30,120 | 79,5 | 76,5 | 67 57 43,7 | |
| | ♂ Centrum | 9 51,0 | | | | 68 1 0,2 | |
| | * *a* | | | | | 68 2 22,0 | |
| 7 | γ Cancri | | 30,116 | 80,0 | 76,9 | 67 57 43,1 | |

*Observed North Polar Distance, of Mars, &c. continued.*

| 1837 | Names. | Madras Mean Time. | Bar. | Thermometer. in | Thermometer. out | Observed N. P. D. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | *h. m.* | Inches. | o | o | o ′ ″ | |
| Mar. 7 | ♂ Centrum | 9 46,4 | | | | 68 0 44 3 | |
| | * *a* | | | | | 68 2 19,3 | |
| 8 | γ Cancri | | 30,106 | 79,9 | 78,0 | 67 57 42,6 | |
| | ♂ Centrum | 9 41,9 | | | | 68 0 43,3 | |
| | * *a* | | | | | 68 2 20,0 | |
| 9 | γ Cancri | | 30,124 | 79,9 | 77,7 | 67 57 43,5 | |
| | ♂ Centrum | 9 37,4 | | | | 68 0 55,7 | |
| | * *a* | | | | | 68 2 20,4 | |
| 10 | γ Cancri | | 30,072 | 79,7 | 78,5 | 67 57 41,7 | |
| | ♂ Centrum | 9 33,0 | | | | 68 1 23,2 | |
| | * *a* | | | | | 68 2 20,2 | |
| 11 | γ Cancri | | 30,024 | 80,3 | 80,2 | 67 57 42,6 | |
| | ♂ Centrum | 9 28,7 | | | | 68 2 3,3 | |
| 12 | γ Cancri | | 30,076 | 80,2 | 79,7 | 67 57 41,4 | |
| | ♂ Centrum | 9 24,4 | | | | 68 2 58,4 | |
| 13 | γ Cancri | | 30,076 | 81,0 | 79,0 | 67 57 43,1 | |
| | ♂ Centrnm | 9 20,2 | | | | 68 4 5,7 | |
| | * *a* | | | | | 68 2 18,9 | |
| 14 | γ Cancri | | 29,990 | 81,8 | 80,0 | 67 57 42,2 | |
| | ♂ Centrum | 9 16,0 | | | | 68 5 24,5 | |
| | * *a* | | 29,986 | 80,5 | 79,8 | 68 2 23,4 | |
| 15 | γ Cancri | | 29,960 | 80,6 | 79,5 | 67 57 42,4 | |
| | ♂ Centrum | 9 10,7 | | | | 68 6 57,8 | |
| | * *b* | | 29,958 | | 79,0 | 68 13 2,9 | |
| 16 | γ Cancri | | 30,000 | 80,5 | 79,6 | 67 57 43,3 | |
| | ♂ Centrum | 9 7,6 | | | | 68 8 40,5 | |
| | * *b* | | | | | 68 13 4,1 | |
| 17 | ♂ Centrum | 9 3,5 | 30,044 | 80,4 | 80,0 | 68 10 37,4 | |
| | * *b* | | | | | 68 13 3,3 | |
| 18 | γ Cancri | | 30,054 | 80,7 | 78,2 | 67 57 42,6 | |
| | ♂ Centrum | 8 59,4 | | | | 68 12 45,7 | |
| | * *b* | | | | | 68 13 2,8 | |
| 19 | γ Cancri | | 29,998 | 82,3 | 81,8 | 67 57 42,3 | |
| | ♂ Ce ntrum | 8 55,5 | | | | 68 15 1,2 | |
| | * *b* | | 30,010 | | 81,2 | 68 13 4,2 | |
| 20 | ♂ Centrum | 8 51,6 | 29,990 | 82,0 | 80,0 | 68 17 34,1 | |

The above observations have been given here—out of their proper place,—to enable me (without loss of time) to avail myself of the corresponding observations made at the Cape of Good Hope Observatory, with which, through the kindness of the Astronomer Royal I have just been favoured: thus, putting $p'$, $p''$, &c. to represent the equatoreal horizontal parallax of the Planet *Mars*; and computing the values of $dr$, (the difference of refraction between the Planet and Star) and of $\Delta\,\delta$, the change of Declination in the interval occupied by the Planet in passing from one meridian to the other, we get

## *Observed North Polar Distance of Mars, &c.*

| 1837 | Names. | Madras Observations. | | | Cape of Good Hope Observations. | | | |
|---|---|---|---|---|---|---|---|---|
| | | Observed diff. | *dr.* | P | Observed diff. | *dr.* | P | Δ δ |
| | | ° ′ ″ | ″ | | ° ′ ″ | ″ | | ′ ″ |
| Jan. 26 | ♂ Cent. & *x* Leonis | 0 8 21,6 | +0,13 *r* | + ,0990 *p* | = 0 6 47,13 | +0,21 | + ,7963 *p* | + 1 23,51 |
| | ♂ —— & *η* —— | 1 7 3,4 | 1,12 | — ,0990 | = 1 8 24,41 | 1,82 | — ,7963 | — 1 23,51 |
| 27 | ♂ —— & *ω* —— | 0 3 32,3 | 0,07 | + ,1013$p^{i}$ | = 0 1 56,86 | 0,05 | + ,7978$p^{i}$ | + 1 23,51 |
| | ♂ —— & *η* —— | 1 15 9,5 | 1,25 | — ,1013 | = 1 16 44,33 | 0,41 | — ,7978 | — 1 23,51 |
| 28 | ♂ —— & P —— | 0 3 34,9 | 0,07 | + ,1037$p^{ii}$ | = 0 2 2,04 | 0,06 | + ,7992$p^{ii}$ | + 1 23,61 |
| | ♂ —— & *η* —— | 1 23 20,8 | 1,37 | — ,1037 | = 0 24 50,02 | 0,65 | — ,7992 | — 1 23,61 |
| Feb. 5 | ♂ —— & *n* Cancri | 0 10 27,9 | 0,17 | + ,1219$p^{iii}$ | = 0 9 1,32 | 0,24 | + ,8100$p^{iii}$ | + 1 17,00 |
| 6 | ♂ —— & *δ* —— | 1 22 12,9 | 1,36 | — ,1242$p^{iv}$ | = 1 23 37,61 | 2,12 | — ,8114$p^{iv}$ | — 1 15,46 |
| | ♂ —— & *n* —— | 0 3 2,9 | 0,07 | + ,1242 | = 0 1 37,26 | 0,04 | + ,8114 | + 1 15,46 |
| 7 | ♂ —— & *δ* —— | 1 29 30,5 | 1,47 | — ,1262$p^{v}$ | = 1 30 53,98 | 2,31 | — ,8128$p^{v}$ | — 1 13,77 |
| | ♂ —— & *r* —— | 0 5 4,1 | 0,08 | + ,1262 | = 0 3 48,67 | 0,10 | + ,8128 | + 1 13,77 |
| 8 | ♂ —— & *δ* —— | 1 36 36,9 | 1,60 | — ,1282$p^{vi}$ | = 1 37 55,50 | 2,48 | — ,8141$p^{vi}$ | — 1 11,81 |
| 9 | ♂ —— & *δ* —— | 1 43 30,5 | 1,71 | — ,1302$p^{vii}$ | = 1 44 48,36 | 2,66 | — ,8149$p^{vii}$ | — 1 9,78 |
| 11 | ♂ —— & *δ* —— | 1 56 41,0 | 1,91 | — ,1340$p^{viii}$ | = 1 57 52,81 | 2,93 | — ,8171$p^{viii}$ | — 1 5,37 |
| | ♂ —— & *o* —— | 0 1 45,6 | 0,02 | + ,1340 | = 0 0 30,61 | 0,01 | + ,8171 | + 1 5,37 |
| 12 | ♂ —— & *δ* —— | 2 2 57,2 | 2,33 | — ,1360$p^{ix}$ | = 2 4 4,60 | 3,14 | — ,8183$p^{ix}$ | — 1 3,03 |
| | ♂ —— & *m* —— | 0 2 47,5 | 0,04 | + ,1360 | = 0 1 35,53 | 0,04 | + ,8183 | + 1 3,03 |
| 14 | ♂ —— & *γ* —— | 1 3 16,4 | 1,04 | + ,1392$p^{x}$ | = 1 2 9,75 | 1,57 | + ,8201$p^{x}$ | + 0 57,99 |
| | ♂ —— & *i* —— | 0 3 36,7 | 0,07 | + ,1392 | = 0 2 32,20 | 0,08 | + ,8201 | + 0 57,99 |
| 15 | ♂ —— & *γ* —— | 0 57 45,2 | 0,92 | + ,1423$p^{xi}$ | = 0 56 35,63 | 1,41 | + ,8220$p^{xi}$ | + 0 55,40 |
| | ♂ —— & *h* —— | 0 8 32,6 | 0,14 | + ,1423 | = 0 7 24,60 | 0,17 | + ,8220 | + 0 55,40 |
| 18 | ♂ —— & *γ* —— | 0 42 39,9 | 0,69 | + ,1452$p^{xii}$ | = 0 41 44,53 | 1,01 | + ,8236$p^{xii}$ | + 0 47,34 |
| 20 | ♂ —— & *γ* —— | 0 33 58,5 | 0,54 | + ,1478$p^{xiii}$ | = 0 33 9,15 | 0.81 | + ,8251$p^{xiii}$ | + 0 41,80 |
| | ♂ —— & *g* —— | 0 0 41,5 | 0,09 | + ,1478 | = 0 0 4,97 | 0,00 | + ,8251 | — 0 41,80 |
| 21 | ♂ —— & *γ* —— | 0 30 1,7 | 0,53 | + ,1490$p^{xiv}$ | = 0 29 15,17 | 0,70 | + ,8258$p^{xiv}$ | + 0 39,00 |
| | ♂ —— & *f* —— | 0 1 28,7 | 0,02 | + ,1490 | = 0 0 43,58 | 0,01 | + ,8258 | + 0 39,00 |
| 28 | ♂ —— & *γ* —— | 0 10 5,0 | 0,25 | + ,1547$p^{xv}$ | = 0 9 36,10 | 0,22 | + ,8290$p^{xv}$ | + 0 19,40 |
| Mar. 4 | ♂ —— & *γ* —— | 0 4 37,2 | 0,08 | + ,1561$p^{xvi}$ | = 0 4 15,89 | 0,11 | + ,8298$p^{xvi}$ | + 0 8,73 |
| | ♂ —— & *α* —— | 0 0 5,5 | 0,00 | — ,1561 | = 0 0 21,09 | 0,00 | — ,8298 | — 0 8,73 |
| 6 | ♂ —— & *α* —— | 0 1 21,8 | 0,02 | — ,1564$p^{xvii}$ | = 0 1 33,53 | 0,03 | — ,8300$p^{xvii}$ | — 0 3,70 |
| 7 | ♂ —— & *γ* —— | 0 3 1,2 | 0,07 | + ,1567$p^{xviii}$ | = 0 2 52,17 | 0,06 | + ,8302$p^{xviii}$ | + 0 1,22 |
| | ♂ —— & *α* —— | 0 1 35,0 | 0,02 | — ,1567 | = 0 1 44,33 | 0,04 | ,8302 | + 0 1,22 |
| 10 | ♂ —— & *γ* —— | 0 3 41,5 | 0,07 | + ,1564$p^{xix}$ | = 0 3 39,06 | 0,09 | + ,8300$p^{xix}$ | — 0 6,01 |
| | ♂ —— & *α* —— | 0 0 57,0 | 0,01 | — ,1564 | = 0 0 57,80 | 0,02 | — ,8300 | + 0 6,01 |
| 12 | ♂ —— & *γ* —— | 0 5 17,0 | 0,08 | + ,1561$p^{xx}$ | = 0 5 17,39 | 0,11 | + ,8298$p^{xx}$ | — 0 10,59 |
| 13 | ♂ —— & *γ* —— | 0 4 22,6 | 0,08 | + ,1556$p^{xxi}$ | = 0 6 25,31 | 0,14 | + ,8295$p^{xxi}$ | — 0 12,79 |
| | ♂ —— & *α* —— | 0 1 46,8 | 0,02 | — ,1556 | = 0 1 47,64 | 0,10 | — ,8295 | + 0 12,79 |
| 18 | ♂ —— & *γ* —— | 0 15 3,1 | 0,25 | + ,1533$p^{xxii}$ | = 0 15 18,25 | 0,34 | + ,8282$p^{xxii}$ | — 0 22,80 |
| | ♂ —— & *b* —— | 0 0 17,1 | 0,00 | — ,1533 | = 0 0 8,16 | 0,00 | — ,8282 | + 0 22,80 |
| 19 | ♂ —— & *γ* —— | 0 17 18,9 | 0,26 | + ,1524$p^{xxiii}$ | = 0 17 36,01 | 0,39 | + ,8277$p^{xxiii}$ | — 0 24,91 |
| | ♂ —— & *b* —— | 0 1 57,0 | 0,02 | + ,1524 | = 0 2 17,09 | 0,05 | + ,8277 | — 0 24,91 |

Resolving the above equations, and employing the log. distance of the Planet from the Earth—furnished in the Nautical Almanac—for the moment intermediate between the transit of the Planet over the two Observatories; we get $\pi$, the Equatoreal Horizontal Parallax of the Sun.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | $''$ | | | $''$ | $''$ | |
| Jan. | 26 | 10,88 = | ,6973$p$ | $\therefore p$ | = 15,61 *or* $\pi$ = 10,68 | | } Probably another Star instead of $x$ has been observed by one or the other. |
| | | 1,81 | ,6973$p$ | | = | = | |
| | 27 | 11,95 | ,6965$p^{i}$ | | = 17,16 | = 14,71 | |
| | | 10,58 | ,6965$p^{i}$ | | = 15,20 | = 10,37 | |
| | 28 | 9,26 | ,6955$p^{ii}$ | | = 13,31 | = 9,05 | |
| | | 4,89 | ,6955$p^{ii}$ | | = 7,03 | = 4,78 | |
| Feb. | 5 | 9,51 | ,6881$p^{iii}$ | | = 13,82 | = 9,31 | |
| | 6 | 10,01 | ,6872$p^{iv}$ | | = 14,57 | = 9,82 | |
| | | 10,21 | ,6872$p^{iv}$ | | = 14,86 | = 10,02 | |
| | 7 | 10,67 | ,6866$p^{v}$ | | = 15,54 | = 10,49 | |
| | | 1,64 | ,6866$p^{v}$ | | | | } $r$ badly observed either at Madras or the Cape. |
| | 8 | 7,67 | ,6859$p^{vi}$ | | = 11,18 | 7,55 | |
| | 9 | 9,03 | ,6847$p^{vii}$ | | = 13,19 | 8,92 | |
| | 11 | 7,46 | ,6831$p^{viii}$ | | = 10,92 | 7,41 | |
| | | 10,24 | ,6831$p^{viii}$ | | = 14,99 | 10,18 | |
| | 12 | 5,18 | ,6823$p^{ix}$ | | = 7,59 | 5,17 | |
| | | 8,94 | ,6823$p^{ix}$ | | = 13,10 | 9,12 | |
| | 14 | 8,13 | ,6809$p^{x}$ | | = 11,94 | 8,17 | |
| | | 6,47 | ,6809$p^{x}$ | | = 9,50 | 6,65 | |
| | 15 | 13,68 | ,6807$p^{xi}$ | | = 20,09 | 13,80 | |
| | | 12,57 | ,6807$p^{xi}$ | | = 18,47 | 12,68 | |
| | 18 | 7,71 | ,6784$p^{xii}$ | | = 11,37 | 7,89 | |
| | 20 | 7,28 | ,6773$p^{xiii}$ | | = 10,75 | 7,53 | |
| | | 4,67 | ,6773$p^{xiii}$ | | = 6,89 | 4,83 | |
| | 21 | 7,36 | ,6768$p^{xiv}$ | | = 10,87 | 7,66 | |
| | | 6,14 | ,6768$p^{xiv}$ | | = 9,07 | 6,39 | |
| | 28 | 9,53 | ,6743$p^{xv}$ | | = 14,13 | 10,37 | |
| Mar. | 4 | 12,36 | ,6737$p^{xvi}$ | | = 18,34 | 13,85 | |
| | | 6,86 | ,6737$p^{xvi}$ | | = 10,18 | 7,69 | |
| | 6 | 8,01 | ,6736$p^{xvii}$ | | = 11,89 | 9,11 | |
| | 7 | 7,82 | ,6735$p^{xviii}$ | | = 11,61 | 8,96 | |
| | | 8,13 | ,6735$p^{xviii}$ | | = 12,07 | 9,31 | |
| | 10 | 8,43 | ,6736$p^{xix}$ | | = 12,51 | 9,89 | |
| | | 6,33 | ,6736$p^{xix}$ | | = 9,40 | 7,42 | |
| | 12 | 10,17 | ,6737$p^{xx}$ | | = 15,10 | 12,13 | |
| | 13 | 10,02 | ,6739$p^{xxi}$ | | = 14,87 | 12,04 | |
| | | 13,71 | ,6739$p^{xxi}$ | | = 20,35 | 16,48 | The Madras Obs. of $\alpha$ is too small. |
| | 18 | 7,56 | ,6749$p^{xxii}$ | | = 11,20 | 9,46 | |
| | | 13,86 | ,6749$p^{xxii}$ | | = 20,54 | 17,34 | The Cape Obs. of $\alpha$ is too small. |
| | 19 | 7,67 | ,6753$p^{xxiii}$ | | = 11,36 | 9,67 | |
| | | 4,79 | ,6753$p^{xxiii}$ | | = 7,09 | 6,04 | The Cape Obs. of $\alpha$ is too large. |

| | |
|---|---|
| Mean = | 9″,486 |
| Whereas from a similar series of observations at the opposition of 1832-33 we obtained for $\pi$ | 9 ,912 |
| Do. Do. 1834-35 | 8 ,595 |
| Giving to each series the same weight, we obtain the mean Equatoreal Hor. Pa. of the Sun, or $\pi$ = | 9 ,331 |

# OBSERVATIONS OF THE FIXED STARS.

THE observations of the Fixed Stars in 1836 & 1837 have been principally confined to a Catalogue of 2070 Stars, which, with those given in Vols. II. & III. completes the re-observation of Piazzi's Catalogue. It was my intention in 1836 to have made four observations of each Star at each Instrument—two in the first year, and two in the second, whereby any error in the observation or reduction would readily be detected;—this plan has for the most part been accomplished,—the principal deviation therefrom being in the hours XX & XXI, where, having to encounter a large number of Stars (from 140—150 in each hour) and that too at a time of the year little favorable to Observation,—I have been unable to make more than two or three, and in some cases only one observation of each Star; but, taking into account the accuracy to which each single observation may lay claim, I have thought it proper, rather to give this single observation, than to omit the Star from the Catalogue. The Magnitudes are from the mean of all the observations at both instruments, save that in the case where half a magnitude had to be decided between the two instruments, I have given it in favor of the Transit, as being derived from the better instrument of the two, and from the most skilful observers. The Corrections which have been employed, are those resulting from the values of *a*, *b*, *c*, *d*, of the Catalogue in conjunction with the values of A, B, C, D, given in the Nautical Almanac;—these values of *a*, *b*, *c*, *&c.* have been computed for the year 1840, by applying to the A. R. and Declination given in Piazzi's Catalogue—the amount of 40 times the annual precession there given, whereby the places for 1840, are for *this purpose* obtained to a sufficient degree of accuracy. The formulæ employed (which has been explained at full length by Mr. Bailly in the appendix to the second volume of the Memoirs of the Royal Astronomical Society), is as follows

$$a = + \cos \alpha . \sec \delta$$

$$b = + \sin \alpha . \sec \delta$$

$$c = + 46''024 + 20'',042 \sin \alpha . \tan \delta$$

$$d = + \cos \alpha . \tan \delta$$

$$a' = + \tan \omega . \cos \delta - \sin \alpha . \sin \delta$$

$$b' = + \cos \alpha . \sin \delta$$

$$c' = + 20'',042 \cos \alpha .$$

$$d' = - \sin \alpha .$$

and the values of A, B, C, D from the Nautical Almanac are computed from the formulæ

$$A = - 18'',6768 \cos . \odot$$

$$B = - 20'',3600 \sin . \odot$$

$$C = t - 0{,}02495 \sin . 2 \odot - 0{,}34362 \sin . ☊ + 0{,}00413 \sin . 2 ☊ - 0{,}004 \sin . 2 ☾$$

$$D = - 0'',54470 \cos . 2 \odot - 9'',25000 \cos . ☊ + 0'',09030 \cos . 2 ☊ - 0'',090 \cos . 2 ☾$$

from which we deduce

$$\text{Apparent A. R. } in\ arc. = \alpha + A\,a + B\,b + C\,c + D\,d.$$

$$\text{Apparent Declination} = \delta + A\,a' + B\,b' + C\,c' + D\,d'.$$

where $t$ denotes the time from the beginning of the year, $\alpha$ represents the A. R. of the Star, $\delta$ its Declination, and $\omega$ the Obliquity of the ecliptic. To guard against mistakes, the computations of these values as well as the places for 1840—have all been performed in duplicate, thus;—when the first computation had once been completed, the resulting values properly arranged —were neatly registered in a book which it was intended should be eventually employed in the ulterior computations, and the said book together with the details of the computation carefully locked up;—the computation was now again gone over anew, the results carefully compared with those registered in the fair book, and the discrepancies set right by a re-examination of each of the original computations; when the error, if occurring in the first computation, was rectified by neatly erasing the erroneous figures in the fair book: in the examination of the press, the proof sheet has always been compared with this original document, by which means, errors (with the exception of those given in the errata) have I hope been completely avoided.

A

# SUBSIDIARY CATALOGUE (No. 2.)

OF

# THE FIXED STARS

REDUCED TO JANUARY 1, 1836.

Together with the values of *a*, *b*, *c*, *d*, &c.

COMPUTED FOR THE YEAR 1840.

&c.

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 1 | Andromedæ 7.8 | 6 | 0 1 59,87 | +3,074 | +8,8770 | +6,8593 | +0,4877 | +8,5453 |
| 2 | Ceti 9 | 4 | 2 0,62 | 3,065 | ,8346 | 6,8169 | ,4864 | —8,1762 |
| 3 | ——— *var.* | 4 | 2 46,05 | 3,067 | ,8250 | 6,9323 | ,4867 | —7,6915 |
| 4 | θ App. Sculp. 6.7 | 3 | 3 23,29 | 3,053 | ,9161 | 7,1122 | ,4847 | —8,6856 |
| 5 | Andromedæ 7.8 | 4 | 3 33,71 | 3,079 | ,8768 | 7,0887 | ,4884 | +8,5443 |
| 6 | Ceti 8 | 3 | 4 49,44 | 3,068 | +8,8262 | +7,1651 | +0,4869 | —7,8551 |
| 7 | App. Sculp. 8 | 4 | 4 57,00 | 3,044 | ,9316 | ,2818 | ,4834 | —8,7278 |
| 8 | Andromedæ 8 | 3 | 6 0,77 | 3,098 | ,9403 | ,3727 | ,4911 | +8,7496 |
| 9 | Piscium 8.9 | 3 | 6 32,75 | 3,073 | ,8279 | ,2960 | ,4876 | +7,9669 |
| 10 | Andromedæ 7.8 | 3 | 6 36,65 | 3,091 | ,8891 | ,3615 | ,4901 | +8,5965 |
| 11 | Andromedæ 7.8 | 4 | 6 41,20 | 3,087 | +8,8715 | +7,3482 | +0,4895 | +8,5195 |
| 12 | Piscium 7.8 | 3 | 6 54,17 | 3,063 | 8,8270 | ,3161 | ,4861 | —7,9149 |
| 13 | ——— 7.8 | 3 | 7 39,51 | 3,073 | 8,8271 | ,3629 | ,4876 | +7,9262 |
| 14 | App. Sculp. 7 | 3 | 7 50,73 | 3,039 | 8,8968 | ,4435 | ,4827 | —8,6250 |
| 15 | Cassiopeæ 7 | 3 | 8 11,76 | 3,155 | 9,1333 | ,6976 | ,4990 | +9,0736 |
| 16 | Piscium 7.8 | 3 | 8 15,33 | 3,068 | +8,8237 | +7,3914 | +0,4869 | +7,0508 |
| 17 | Ceti 8.9 | 3 | 8 45,62 | 3,056 | ,8347 | ,4258 | ,4851 | —8,1846 |
| 18 | ——— 7 | 3 | 9 13,15 | 3,049 | ,8504 | ,4636 | ,4842 | —8,3830 |
| 19 | Piscium 7.8 | 3 | 9 25,13 | 3,066 | ,8240 | ,4464 | ,4866 | —7,5051 |
| 20 | Ceti 7.8 | 3 | 9 54,90 | 3,065 | ,8240 | ,4699 | ,4864 | —7,5281 |
| 21 | Andromedæ 7.8 | 2 | 10 5,17 | 3,103 | +8,8887 | +7,5431 | +0,4918 | +8,5959 |
| 22 | Piscium 8 | 3 | 10 26,72 | 3,055 | ,8328 | ,5009 | ,4850 | —8,1447 |
| 23 | Phœnicis 6 | 3 | 10 31,34 | 3,008 | ,9673 | ,6382 | ,4783 | —8,8100 |
| 24 | Andromedæ 8 | 3 | 10 51,34 | 3,099 | ,8681 | ,5523 | ,4912 | +8,5032 |
| 25 | Ceti 7.8 | 6 | 11 49,96 | 3,051 | ,8363 | ,5581 | ,4844 | —8,2185 |
| 26 | Andromedæ 7.8 | 3 | 12 58,07 | 3,126 | +8,9226 | +7,6834 | +0,4950 | +8,7050 |
| 27 | App. Sculp. 7.8 | 4 | 13 2,91 | 3,010 | 8,9190 | ,6821 | ,4786 | —8,6953 |
| 28 | Ceti 8 | 3 | 13 17,17 | 3,044 | 8,8428 | ,6124 | ,4834 | —8,3112 |
| 29 | App. Sculp. 8 | 3 | 13 34,70 | 3,033 | 8,8620 | ,6422 | ,4819 | —8,4693 |
| 30 | Cassiopeæ 8 | 4 | 13 56,90 | 3,218 | 9,1423 | ,9329 | ,5076 | +9,0856 |
| 31 | Cassiopeæ 9 | 3 | 14 21,76 | 3,223 | +9,1434 | +7,9462 | +0,5083 | +9,0871 |
| 32 | Ceti 7 | 4 | 14 45,09 | 3,044 | 8,8420 | ,6566 | ,4834 | —8,3038 |
| 33 | App. Sculp. 7 | 3 | 14 59,55 | 3,013 | 8,8941 | ,7164 | ,4790 | —8,6173 |
| 34 | Andromedæ 7.8 | 4 | 16 4,11 | 3,124 | 8,8874 | ,7393 | ,4947 | +8,5927 |
| 35 | Ceti 8 | 4 | 16 30,44 | 3,046 | 8,8333 | ,6975 | ,4837 | —8,1721 |
| 36 | Ceti 8 | 4 | 16 35,97 | 3,039 | +8,8419 | +7,7079 | +0,4827 | —8,3058 |
| 37 | ——— 7.8 | 3 | 17 32,13 | 3,051 | ,8283 | ,7177 | ,4844 | —8,0336 |
| 38 | Piscium 7 | 3 | 17 32,56 | 3,104 | ,8476 | ,7371 | ,4919 | +8,3661 |
| 39 | ——— 7.8 | 4 | 18 29,52 | 3,117 | ,8622 | ,7756 | ,4937 | +8,4741 |
| 40 | Ceti 7 | 3 | 18 43,59 | 3,057 | ,8247 | ,7427 | ,4853 | —7,8355 |
| 41 | Piscium 7.8 | 4 | 18 55,65 | 3,071 | +8,8226 | +7,7453 | +0,4873 | +7,3507 |
| 42 | Ceti 7.8 | 3 | 19 41,07 | 3,042 | ,8328 | ,7718 | ,4832 | —8,1698 |
| 43 | Andromedæ 7 | 3 | 20 15,53 | 3,153 | ,9143 | ,8663 | ,4987 | +8,6837 |
| 44 | Ceti 8 | 4 | 20 51,69 | 3,041 | ,8325 | ,7972 | ,4830 | —8,1672 |
| 45 | ——— 7 | 3 | 21 6,72 | 3,059 | ,8233 | ,7934 | ,4856 | —7,7032 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1 | 4 | +27 44 25,21 | +20,042 | +9,5798 | +9,6682 | +1,3019 | —7,9822 | 2 | +,015 | — ,12 |
| 2 | 4 | —12 41 52,32 | 20,042 | +9,6284 | —9,3415 | ,3019 | 7,9822 | 3 | +,017 | — ,01 |
| 3 | 3 | — 4 13 59,77 | 20,041 | +9,6375 | —8,8664 | ,3019 | 8,1072 | 4 | +,007 | + ,01 |
| 4 | 4 | —36 3 4,44 | 20,041 | +9,5563 | —9,7695 | ,3019 | 8,1961 | 7 | +,020 | + ,15 |
| 5 | 4 | +27 41 53,98 | 20,041 | +9,5763 | +9,6675 | ,3019 | 8,2119 | 8 | +,012 | — ,13 |
| 6 | 4 | — 6 9 13,33 | 20,038 | +9,6345 | —9,0286 | +1,3019 | —8,3387 | 10 | +,004 | — ,03 |
| 7 | 3 | —38 44 3,78 | 20,038 | +9,5478 | —9,7961 | ,3019 | ,3502 | 11 | +,010 | + ,11 |
| 8 | 2 | +40 7 4,84 | 20,036 | +9,4983 | +9,8091 | ,3018 | ,4322 | 13 | +,010 | — ,14 |
| 9 | 3 | + 7 54 23,98 | 20,035 | +9,6294 | +9,1388 | ,3019 | ,4680 | 17 | +,008 | — ,06 |
| 10 | 3 | +30 37 25,13 | 20,035 | +9,5539 | +9,7072 | ,3018 | ,4723 | 18 | +,020 | — ,08 |
| 11 | 3 | +26 22 22,46 | 20,035 | +9,5752 | +9,6478 | +1,3018 | —8,4765 | 19 | +,011 | ,00 |
| 12 | 3 | — 7 2 51,22 | 20,034 | +9,6385 | —9,0877 | ,3018 | ,4890 | 21 | +,016 | + ,01 |
| 13 | 3 | + 7 12 18,30 | 20,032 | +9,6307 | +9,0988 | ,3017 | ,5355 | 22 | +,007 | ,00 |
| 14 | 3 | —32 21 25,50 | 20,031 | +9,5866 | —9,7279 | ,3017 | ,5464 | 23 | +,018 | — ,03 |
| 15 | 3 | +60 37 18,21 | 20,030 | +9,2577 | +9,9400 | ,3017 | ,5640 | 25 | +,019 | + ,02 |
| 16 | 3 | + 0 56 18,68 | 20,030 | +9,6365 | +8,2268 | +1,3017 | —8,5674 | 26 | +,014 | + ,01 |
| 17 | 4 | —12 57 5,65 | 20,028 | +9,6355 | —9,3496 | ,3016 | ,5907 | 29 | +,016 | + ,07 |
| 18 | 4 | —19 57 49,75 | 20,026 | +9,6253 | —9,5323 | ,3016 | ,6128 | 31 | +,001 | — ,09 |
| 19 | 4 | — 2 46 26,43 | 20,026 | +9,6385 | —8,6807 | ,3016 | ,6219 | 34 | +,005 | — ,05 |
| 20 | 3 | — 2 55 31,96 | 20,024 | +9,6385 | —8,7037 | ,3015 | ,6454 | 36 | +,011 | + ,02 |
| 21 | 3 | +30 36 20,98 | 20,024 | +9,5441 | +9,7067 | +1,3015 | —8,6539 | 38 | +,016 | + ,03 |
| 22 | 2 | —11 51 33,80 | 20,022 | +9,6385 | —9,3114 | ,3015 | ,6677 | 39 | +,017 | + ,04 |
| 23 | 2 | —44 8 49,42 | 20,022 | +9,5378 | —9,8422 | ,3015 | ,6704 | 40 | +,004 | — ,02 |
| 24 | 3 | +25 32 34,73 | 20,020 | +9,5682 | +9,6345 | ,3015 | ,6837 | 41 | +,011 | + ,18 |
| 25 | 5 | —13 58 21,54 | 20,015 | +9,6375 | —9,3815 | ,3014 | ,7212 | 44 | +,007 | — ,01 |
| 26 | 4 | +37 16 39,25 | 20,010 | +9,4914 | +9,7817 | +1,3012 | —8,7601 | 47 | +,014 | — ,01 |
| 27 | 3 | —36 42 27,21 | 20,010 | +9,5832 | —9,7755 | ,3012 | ,7623 | 48 | —,001 | ,00 |
| 28 | 3 | —17 7 3,92 | 20,009 | +9,6355 | —9,4677 | ,3012 | ,7688 | 49 | +,014 | — ,03 |
| 29 | 3 | —23 54 45,33 | 20,007 | +9,6243 | —9,6065 | ,3012 | ,7794 | 51 | +,028 | — ,10 |
| 30 | 3 | +61 19 55,73 | 20,005 | +9,1875 | +9,9424 | ,3011 | ,7898 | 52 | +,032 | + ,10 |
| 31 | 1 | +61 24 14,33 | 20,003 | +9,1818 | +9,9427 | +1,3011 | —8,8019 | 54 | +,015 | ,00 |
| 32 | 4 | —16 51 14,31 | 20,001 | +9,6375 | —9,4609 | ,3010 | ,8137 | 56 | +,009 | + ,01 |
| 33 | 4 | —31 56 45,67 | 19,998 | +9,6053 | —9,7222 | ,3010 | ,8213 | 57 | ,000 | — ,04 |
| 34 | 4 | +30 27 47,36 | 19,993 | +9,5289 | +9,6985 | ,3009 | ,8507 | 59 | +,011 | — ,08 |
| 35 | 4 | —12 37 8,62 | 19,990 | +9,6434 | —9,3376 | ,3008 | ,8630 | 62 | +,003 | + ,06 |
| 36 | 4 | —16 56 15,66 | 19,990 | +9,6395 | —9,4627 | +1,3008 | —8,8647 | 63 | +,022 | — ,06 |
| 37 | 4 | — 9 15 36,46 | 19,983 | +9,6444 | —9,2040 | ,3007 | ,8882 | 67 | +,012 | + ,01 |
| 38 | 4 | +19 14 13,97 | 19,983 | +9,5843 | +9,5172 | ,3007 | ,8882 | 66 | +,014 | — ,09 |
| 39 | 4 | +24 8 4,01 | 19,976 | +9,5599 | +9,6104 | ,3005 | ,9119 | 71 | +,006 | — ,04 |
| 40 | 3 | — 5 54 42,26 | 19,975 | +9,6434 | —9,0093 | ,3005 | ,9165 | 72 | +,009 | — ,11 |
| 41 | 4 | + 1 54 22,70 | 19,973 | +9,6345 | +8,5266 | +1,3004 | —8,9211 | 73 | +,006 | — ,04 |
| 42 | 3 | —12 33 57,32 | 19,967 | +9,6464 | —9,3354 | ,3003 | ,9374 | 78 | +,006 | ,00 |
| 43 | 4 | +35 59 32,66 | 19,964 | +9,4757 | +9,7677 | ,3002 | ,9503 | 80 | +,005 | + ,04 |
| 44 | 4 | —12 30 22,15 | 19,958 | +9,6474 | —9,3329 | ,3001 | ,9628 | 82 | +,016 | + ,06 |
| 45 | 4 | — 4 22 39,17 | 19,956 | +9,6434 | —8,8781 | ,3001 | ,9682 | 83 | +,006 | — ,07 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 46 | App. Sculp. 7.8 | 2 | 0 21 20,45 | +2,957 | +8,9479 | +7,9221 | +0,4708 | —8,7696 |
| 47 | Piscium 7.8 | 3 | 21 26,76 | 3,085 | ,8261 | ,8017 | ,4893 | +7,9652 |
| 48 | Andromedæ 7 | 3 | 22 24,83 | 3,191 | ,9580 | ,9546 | ,5039 | +8,7922 |
| 49 | App. Sculp. 7 | 4 | 22 26,26 | 2,950 | ,9496 | ,9462 | ,4698 | —8,7737 |
| 50 | Ceti 8 | 3 | 22 41,20 | 3,042 | ,8297 | ,8302 | ,4832 | —8,1090 |
| 51 | Piscium 7 | 3 | 23 5,04 | 3,105 | +8,8370 | +7,8463 | +0,4921 | +8,2537 |
| 52 | ——— 7.8 | 2 | 23 23,97 | 3,078 | 8,8226 | 7,8369 | ,4883 | +7,6626 |
| 53 | Ceti 7.8 | 2 | 23 49,50 | 3,020 | 8,8461 | 7,8698 | ,4800 | —8,3609 |
| 54 | Andromedæ 7 | 3 | 24 11, | 3,142 | 8,8731 | 7,9020 | ,4972 | +8,5361 |
| 55 | Cassiopeæ 8 | 2 | 24 22,73 | 3,313 | 9,1181 | 8,1505 | ,5202 | +9,0541 |
| 56 | Ceti 7.8 | 2 | 24 50,04 | 3,056 | +8,8228 | +7,8634 | +0,4851 | —7,7393 |
| 57 | Piscium 8 | 1 | 25 5,98 | 3,064 | 8,8214 | 7,8655 | ,4863 | —7,2345 |
| 58 | ——— 8 | 4 | 25 14,09 | 3,078 | 8,8223 | 7,8688 | ,4883 | +7,6731 |
| 59 | Cassiopeæ 8 | 2 | 26 4,55 | 3,343 | 9,1352 | 8,1964 | ,5241 | +9,0771 |
| 60 | ——— 7 | 3 | 26 24,01 | 3,276 | 9,0447 | +8,1114 | ,5153 | +8,9489 |
| 61 | Andromedæ 8 | 3 | 26 46,98 | 3,139 | +8,8609 | +7,9341 | +0,4968 | +8,4739 |
| 62 | Piscium 8 | 4 | 26 59,84 | 3,099 | ,8288 | 7,9053 | ,4912 | +8,1081 |
| 63 | Andromedæ 8 | 2 | 27 32,67 | 3,137 | ,8572 | 7,9421 | ,4965 | +8,4517 |
| 64 | Piscium 8 | 2 | 28 35,42 | 3,056 | ,8217 | 7,9232 | ,4851 | —7,6949 |
| 65 | Andromedæ 7 | 3 | 28 35,56 | 3,183 | ,9046 | 8,0061 | ,5028 | +8,6579 |
| 66 | Ceti 9 | 4 | 29 36,47 | 3,047 | +8,8234 | +7,9399 | +0,4839 | —7,9020 |
| 67 | Piscium 7 | 3 | 30 29,72 | 3,090 | ,8233 | 7,9524 | ,4900 | +7,9112 |
| 68 | ——— 7.8 | 4 | 30 39,48 | 3,075 | ,8203 | 7,9513 | ,4878 | +7,4110 |
| 69 | ——— 7.8 | 3 | 31 8,57 | 3,102 | ,8274 | 7,9659 | ,4916 | +8,0941 |
| 70 | Ceti 7 | 2 | 31 27,55 | 3,029 | ,8294 | 7,9726 | ,4813 | —8,1478 |
| 71 | Piscium 7.8 | 3 | 32 22,04 | 3,138 | +8,8469 | +8,0029 | +0,4966 | +8,3841 |
| 72 | ——— 8 | 3 | 33 0,75 | 3,109 | ,8291 | 7,9931 | ,4926 | +8,1497 |
| 73 | ——— 7.8 | 4 | 33 4,60 | 3,135 | ,8443 | 8,0092 | ,4962 | +8,3628 |
| 74 | Ceti 8 | 2 | 33 19,42 | 2,992 | ,8497 | 8,0180 | ,4760 | —8,4076 |
| 75 | Phœnicis 7.8 | 3 | 34 7,56 | 2,875 | ,9621 | 8,1409 | ,4586 | —8,8039 |
| 76 | Ceti 7 | 3 | 35 34,77 | 3,021 | +8,8297 | +8,0261 | +0,4801 | —8,1779 |
| 77 | Piscium 7.8 | 3 | 36 44,55 | 3,066 | 8,8183 | ,0293 | ,4866 | —6,8502 |
| 78 | Ceti 7.8 | 2 | 36 44,67 | 3,018 | 8,8295 | ,0406 | ,4797 | —8,1822 |
| 79 | Cassiopeæ 7.8 | 3 | 36 54,97 | 3,369 | 9,0535 | ,2669 | ,5275 | +8,9638 |
| 80 | Andromedæ 7.8 | 3 | 37 3,80 | 3,170 | 8,8659 | ,0769 | ,5011 | +8,4927 |
| 81 | Phœnicis 7 | 2 | 37 11,24 | 2,862 | +8,9579 | +8,1745 | +0,4567 | —8,7961 |
| 82 | Ceti 7 | 3 | 37 29,82 | 3,000 | ,8381 | ,0578 | ,4771 | —8,3110 |
| 83 | Andromed. *præ.* 8 | 4 | 37 37,22 | 3,195 | ,8807 | ,1020 | ,5045 | +8,5806 |
| 84 | ——— *seq.* 7.8 | 2 | 37 40,23 | 3,195 | ,8808 | ,1028 | ,5045 | +8,5808 |
| 85 | ——— 8 | 4 | 39 0,11 | 3,176 | ,8617 | ,0991 | ,5019 | +8,4944 |
| 86 | Piscium 7.8 | 3 | 39 33,78 | 3,040 | +8,8205 | +8,0645 | +0,4829 | —7,8980 |
| 87 | ——— 8 | 3 | 40 10,57 | 3,142 | ,8376 | ,0883 | ,4972 | +8,3145 |
| 88 | ——— 9 | 3 | 41 4,89 | 3,098 | ,8202 | ,0803 | ,4911 | +7,9112 |
| 89 | Ceti 6 | 3 | 41 11,42 | 3,006 | ,8307 | ,0923 | ,4780 | —8,2273 |
| 90 | ——— 8 | 4 | 41 27,06 | 3,031 | ,8217 | ,0862 | ,4816 | —8,0023 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 46 | 3 | −41 34 20,66 | + 19,955 | +9,5877 | −9,8198 | +1,3001 | −8,9723 | 84 | +,009 | + ,04 |
| 47 | 4 | + 7 53 52,85 | 19,955 | +9,6201 | +9,1371 | ,3000 | ,9736 | 85 | +,015 | − ,09 |
| 48 | 2 | +43 2 23,45 | 19,952 | +9,3979 | +9,8321 | ,2998 | ,9945 | 93 | +,001 | − ,01 |
| 49 | 3 | −41 50 49,72 | 19,952 | +9,5899 | −9,8220 | ,2998 | ,9945 | 94 | +,006 | + ,10 |
| 50 | 3 | −10 59 27,68 | 19,943 | +9,6484 | −9,2771 | ,2998 | ,9983 | 96 | +,015 | − ,02 |
| 51 | 2 | +15 6 54,09 | 19,940 | +9,5933 | +9,4145 | +1,2997 | −9,0070 | 97 | +,006 | − ,22 |
| 52 | 3 | + 3 56 25,89 | 19,936 | +9,6294 | +8,8376 | ,2996 | ,0119 | 98 | ,000 | − ,02 |
| 53 | 3 | −19 7 36,65 | 19,935 | +9,6474 | −9,5124 | ,2995 | ,0204 | 100 | +,010 | + ,01 |
| 54 | 2 | +27 22 27,75 | 19,930 | +9,5263 | +9,6605 | ,2995 | ,0264 | 103 | | + ,02 |
| 55 | 1 | +59 38 29,27 | 19,928 | +9,1038 | +9,9335 | ,2995 | ,0299 | 104 | +,0011 | − ,16 |
| 56 | 3 | − 4 45 16,82 | 19,924 | +9,6444 | −8,9139 | +1,2994 | −9,0380 | 106 | +,016 | − ,14 |
| 57 | 3 | − 1 30 47,72 | 19,922 | +9,6405 | −8,4104 | ,2993 | ,0415 | 107 | +,013 | − ,02 |
| 58 | 2 | + 4 2 29,76 | 19,920 | +9,6284 | +8,8481 | ,2993 | ,0437 | 108 | +,002 | + ,07 |
| 59 | 2 | +60 57 36,55 | 19,912 | +9,0414 | +9,9389 | ,2991 | ,0583 | 112 | +,004 | + ,06 |
| 60 | 3 | +53 17 53,82 | 19,909 | +9,2201 | +9,9012 | ,2990 | ,0637 | 114 | +,018 | − ,02 |
| 61 | 3 | +24 12 2,07 | 19,905 | +9,5416 | +9,6099 | +1,2989 | −9,0702 | 116 | +,016 | − ,14 |
| 62 | 2 | +10 56 30,52 | 19,902 | +9,6053 | +9,2762 | ,2989 | ,0734 | 119 | ,000 | − ,10 |
| 63 | 2 | +23 7 17,18 | 19,897 | +9,5465 | +9,5914 | ,2988 | ,0818 | 121 | +,019 | ,00 |
| 64 | 3 | − 4 18 13,79 | 19,885 | +9,6454 | −8,8698 | ,2985 | ,0981 | 129 | +,010 | − ,04 |
| 65 | 3 | +34 29 42,83 | 19,885 | +9,4564 | +9,7499 | ,2985 | ,0981 | 128 | +,010 | − ,03 |
| 66 | 3 | − 6 54 4,71 | 19,874 | +9,6503 | −9,0749 | +1,2983 | −9,1128 | 132 | +,011 | − ,01 |
| 67 | 3 | + 7 0 50,19 | 19,864 | +9,6180 | +9,0840 | ,2981 | ,1252 | 135 | +,007 | − ,01 |
| 68 | 3 | + 2 13 4,23 | 19,862 | +9,6325 | +8,5868 | ,2980 | ,1271 | 137 | +,059 | + ,22 |
| 69 | 3 | +10 37 49,08 | 19,856 | +9,6031 | +9,2626 | ,2979 | ,1345 | 140 | +,018 | − ,08 |
| 70 | 3 | −12 2 52,18 | 19,852 | +9,6561 | −9,3143 | ,2978 | ,1390 | 142 | +,013 | − ,16 |
| 71 | 3 | +20 7 7,31 | 19,841 | +9,5539 | +9,5327 | +1,2976 | −9,1516 | 145 | −,006 | − ,13 |
| 72 | 3 | +12 3 44,55 | 19,834 | +9,5955 | +9,3163 | ,2974 | ,1603 | 149 | +,013 | − ,09 |
| 73 | 3 | +19 14 19,66 | 19,833 | +9,5587 | +9,5139 | ,2974 | ,1603 | 150 | +,018 | − ,07 |
| 74 | 3 | −21 12 2,56 | 19,829 | +9,6609 | −9,5533 | ,2973 | ,1637 | 151 | +,010 | + ,04 |
| 75 | 3 | −44 1 29,35 | 19,819 | +9,6191 | −9,8369 | ,2971 | ,1739 | 153 | +,007 | − ,20 |
| 76 | 4 | −12 54 4,00 | 19,800 | +9,6609 | −9,3429 | +1,2967 | −9,1911 | 161 | −,007 | − ,15 |
| 77 | 4 | − 0 38 37,26 | 19,784 | +9,6395 | −8,0263 | ,2963 | ,2053 | 167 | +,027 | − ,16 |
| 78 | 2 | −13 2 26,12 | 19,783 | +9,6618 | −9,3469 | ,2963 | ,2061 | 169 | +,016 | + ,14 |
| 79 | 1 | +54 24 25,45 | 19,781 | +9,0828 | +9,9046 | ,2962 | ,2077 | 168 | +,023 | − ,02 |
| 80 | 3 | +25 16 28,19 | 19,779 | +9,5092 | +9,6250 | ,2962 | ,2092 | 170 | +,018 | − ,09 |
| 81 | 4 | −43 34 12,61 | 19,778 | +9,6304 | −9,8324 | +1,2962 | −9,2107 | 173 | −,001 | − ,08 |
| 82 | 3 | −17 19 20,44 | 19,773 | +9,6656 | −9,4670 | ,2961 | ,2138 | 174 | +,017 | − ,02 |
| 83 | 3 | +30 2 48,14 | 19,771 | +9,4683 | +9,6939 | ,2960 | ,2153 | 175 | +,015 | − ,18 |
| 84 | 3 | +30 3 13,96 | 19,770 | +9,4669 | +9,6941 | ,2960 | ,2161 | 176 | +,020 | − ,18 |
| 85 | 4 | +25 23 37,00 | 19,751 | +9,5038 | +9,6263 | ,2956 | ,2310 | 184 | +,022 | − ,12 |
| 86 | 3 | − 6 53 17,20 | 19,742 | +9,6551 | −9,0710 | +1,2954 | −9,2375 | 188 | +,003 | + ,01 |
| 87 | 4 | +17 25 8,32 | 19,733 | +9,5587 | +9,4702 | ,2952 | ,2439 | 191 | −,004 | + ,08 |
| 88 | 3 | + 7 3 35,88 | 19,719 | +9,6117 | +9,0839 | ,2949 | ,2531 | 197 | +,016 | − ,01 |
| 86 | 3 | −14 27 7,79 | 19,717 | +9,6674 | −9,3895 | ,2948 | ,2544 | 198 | +,019 | − ,09 |
| 90 | 4 | − 8 44 39,36 | 19,713 | +9,6590 | −9,1733 | ,2947 | ,2572 | 200 | +,009 | − ,02 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h. m. s.* | *s.* | | | | |
| 91 | Piscium 8 | 3 | 0 42 1,22 | +3,139 | +8,8339 | +8,1040 | +0,4968 | +8,2773 |
| 92 | Phœnicis 7.8 | 2 | 42 22,07 | 2,827 | ,9614 | ,2357 | ,4513 | —8,8052 |
| 93 | Piscium 8 | 3 | 42 25,47 | 3,099 | ,8198 | ,0940 | ,4512 | +7,9168 |
| 94 | ——— 7.8 | 4 | 42 34,95 | 3,094 | ,8187 | ,0950 | ,4905 | +7,8403 |
| 95 | ——— 7.8 | 3 | 43 0,31 | 3,121 | ,8256 | ,1061 | ,4943 | +8,1405 |
| 96 | Piscium 8 | 4 | 44 48,76 | 3,154 | +8,8378 | +8,1365 | +0,4989 | +8,3332 |
| 97 | ——— 8.9 | 3 | 44 51,99 | 3,151 | ,8361 | ,1354 | ,4984 | +8,3151 |
| 98 | ——— 8.9 | 3 | 44 53,40 | 3,083 | ,8161 | ,1155 | ,4890 | +7,5652 |
| 99 | ——— 8.9 | 3 | 45 29,76 | 3,091 | ,8168 | ,1221 | ,4901 | +7,7528 |
| 100 | Ceti 8 | 3 | 45 30,06 | 2,998 | ,8299 | ,1351 | ,4768 | —8,2372 |
| 101 | Andromedæ 8 | 3 | 46 23,00 | 3,180 | +8,8494 | +8,1637 | +0,5024 | +8,4332 |
| 102 | Cassiopeæ 7.8 | 4 | 47 53,12 | 3,417 | 9,0188 | ,3475 | ,5336 | +8,9116 |
| 103 | Piscium 8 | 4 | 47 55,89 | 3,201 | 8,8586 | ,1874 | ,5053 | +8,4921 |
| 104 | Cassiopeæ 7.8 | 3 | 48 27,89 | 3,419 | 9,0177 | ,3513 | ,5339 | +8,9098 |
| 105 | Andromedæ 7.8 | 2 | 48 45,72 | 3,175 | 8,8426 | ,1793 | ,5017 | +8,3893 |
| 106 | Piscium 8.9 | 3 | 48 49,56 | 3,070 | +8,8139 | +8,1506 | +0,4871 | +6,7548 |
| 107 | Andromedæ 7 | 2 | 49 16,21 | 3,254 | ,8905 | ,2315 | ,5124 | +8,6276 |
| 108 | Piscium 8 | 3 | 49 18,79 | 3,125 | ,8220 | ,1636 | ,4948 | +8,1097 |
| 109 | ——— 8 | 4 | 49 35,60 | 3,176 | ,8421 | ,1860 | ,5019 | +8,3871 |
| 110 | ——— 8 | 4 | 49 53,60 | 3,126 | ,8219 | ,1688 | ,4950 | +8,1127 |
| 111 | Messoris 8.9 | 3 | 50 44,93 | 3,531 | +9,0828 | +8,4375 | +0,5479 | +9,0089 |
| 112 | Piscium 8 | 3 | 50 59,65 | 3,068 | 8,8129 | ,1705 | ,4869 | —5,9756 |
| 113 | ——— 7 | 2 | 51 43,88 | 3,179 | 8,8407 | ,2035 | ,5021 | +8,3827 |
| 114 | ——— 8 | 3 | 52 39,98 | 3,124 | 8,8193 | ,1901 | ,4947 | +8,0724 |
| 115 | ——— 8 | 3 | 52 41,21 | 3,106 | 8,8156 | ,1870 | ,4922 | +7,9117 |
| 116 | Piscium 8 | 2 | 52 46,92 | 3,128 | +8,8203 | +8,1922 | +0,4953 | +8,1029 |
| 117 | ——— 8 | 4 | 55 17,01 | 3,101 | 8,8133 | ,2063 | ,4915 | +7,8253 |
| 118 | ——— 8.9 | 3 | 55 18,53 | 3,103 | 8,8131 | ,2141 | ,4918 | +7,8453 |
| 119 | Cassiopeæ 7 | 3 | 56 39,72 | 3,710 | 9,1521 | ,5558 | ,5694 | +9,1017 |
| 120 74 | Piscium *seq.* 6.7 | 2 | 56 54,90 | 3,192 | 8,8390 | ,2448 | ,5041 | +8,3853 |
| 121 | Piscium *seq.* 8 | 3 | 57 22,75 | 3,091 | +8,8111 | +8,2207 | +0,4901 | +7,6601 |
| 122 | ——— 8 | 3 | 57 27,74 | 3,200 | ,8419 | ,2519 | ,5051 | +8,4095 |
| 123 | Ceti 8.9 | 1 | 58 13,80 | 3,005 | ,8171 | ,2329 | ,4778 | —8,0825 |
| 124 | Piscium 7.8 | 3 | 58 21,96 | 3,186 | ,8346 | ,2520 | ,5032 | +8,3535 |
| 125 | Ceti 8 | 3 | 59 48,01 | 3,123 | ,8143 | ,2423 | ,4946 | +8,0110 |
| 126 | Phœnicis 7.8 | 2 | 1 0 17,67 | 2,751 | +8,9398 | +8,3714 | +0,4395 | —8,7681 |
| 127 | Piscium 8 | 4 | 0 32,65 | 3,210 | 8,8415 | ,2750 | ,5065 | +8,4160 |
| 128 | ——— 7.8 | 3 | 0 35,25 | 3,207 | 8,8404 | ,2745 | ,5061 | +8,4086 |
| 129 | Cassiopeæ 8 | 3 | 2 4,28 | 3,809 | 9,1681 | ,6136 | ,5808 | +9,1223 |
| 130 | Piscium 7.8 | 3 | 2 19,24 | 3,123 | 8,8126 | ,2595 | ,4946 | +7,9923 |
| 131 | Piscium 8 | 3 | 2 50,60 | 3,215 | +8,8397 | +8,2905 | +0,5072 | +8,4107 |
| 132 | ——— 7 | 3 | 3 58,63 | 3,274 | ,8657 | ,3247 | ,5151 | +8,5543 |
| 133 | App. Sculp. 8 | 3 | 5 9,51 | 2,795 | ,8983 | ,3653 | ,4464 | —8,6681 |
| 134 | Piscium 7.8 | 3 | 5 11,68 | 3,112 | ,8090 | ,2764 | ,4930 | +7,8770 |
| 135 | ——— 8 | 3 | 5 38,53 | 3,193 | ,8283 | ,2989 | ,5042 | +8,3252 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 91 | 4 | +16 5 53,93 | +19,704 | +9,5635 | +9,4360 | +1,2946 | —9,2627 | 202 | +,008 | — ,04 |
| 92 | 2 | —44 17 24,07 | 19,697 | +9,6434 | —9,8363 | ,2944 | ,2667 | 205 | +,006 | ,00 |
| 93 | 4 | + 7 9 13,47 | 19,697 | +9,6107 | +9,0895 | ,2944 | ,2667 | 204 | +,010 | — ,01 |
| 94 | 4 | + 6 0 19,43 | 19,695 | +9,6159 | +9,0140 | ,2943 | ,2687 | 206 | —,001 | — ,02 |
| 95 | 3 | +11 53 33,44 | 19,688 | +9,5866 | +9,3071 | ,2942 | ,2727 | 208 | +,016 | + ,03 |
| 96 | 4 | +18 12 9,66 | 19,658 | +9,5453 | +9,4869 | +1,2935 | —9,2902 | 214 | +,005 | + ,03 |
| 97 | 4 | +17 30 8,69 | 19,657 | +9,5502 | +9,4705 | ,2935 | ,2909 | 215 | +,003 | — ,01 |
| 98 | 3 | + 3 11 43,38 | 19,657 | +9,6253 | +8,7406 | ,2935 | ,2909 | 216 | +,015 | — ,11 |
| 99 | 4 | + 4 54 55,71 | 19,647 | +9,6180 | +8,9273 | ,2933 | ,2965 | 218 | +,007 | — ,19 |
| 100 | 3 | —14 48 48,49 | 19,647 | +9,6730 | —9,3986 | ,2933 | ,2965 | 219 | +,014 | — ,12 |
| 101 | 2 | +22 31 25,79 | 19,631 | +9,5105 | +9,5747 | +1,2929 | —9,3052 | 224 | +,028 | + ,06 |
| 102 | 1 | +51 21 4,28 | 19,603 | +9,0334 | +9,8831 | ,2923 | ,3191 | 233 | +,012 | + ,03 |
| 103 | 3 | +25 26 59,64 | 19,603 | +9,4800 | +9,6238 | ,2923 | ,3191 | 236 | +,013 | — ,06 |
| 104 | 3 | +51 14 56,75 | 19,593 | +9,0334 | +9,8823 | ,2921 | ,3238 | 237 | +,021 | + ,04 |
| 105 | 3 | +20 35 55,94 | 19,587 | +9,5198 | +9,5367 | ,2920 | ,3267 | 239 | +,026 | — ,10 |
| 106 | 2 | + 0 28 28,19 | 19,587 | +9,6355 | +7,9308 | +1,2920 | —9,3267 | 240 | +,001 | — ,21 |
| 107 | 2 | +33 3 53,69 | 19,578 | +9,3927 | +9,7269 | ,2918 | ,3307 | 242 | +,008 | — ,17 |
| 108 | 2 | +11 9 12,34 | 19,577 | +9,5843 | +9,2775 | ,2917 | ,3313 | 244 | +,004 | — ,02 |
| 109 | 4 | +20 30 59,30 | 19,572 | +9,5185 | +9,5347 | ,2916 | ,3336 | 245 | +,008 | — ,04 |
| 110 | 2 | +11 14 28,09 | 19,566 | +9,5843 | +9,2804 | ,2915 | ,3365 | 247 | —,003 | — ,03 |
| 111 | 2 | +57 28 40,80 | 19,549 | +8,6721 | +9,9152 | +1,2911 | —9,3438 | 248 | +,022 | + ,03 |
| 112 | 3 | — 0 6 15,81 | 19,542 | +9,6375 | —7,1517 | ,2910 | ,3466 | 251 | +,005 | — ,32 |
| 113 | 2 | +20 21 46,77 | 19,531 | +9,5172 | +9,5307 | ,2907 | ,3515 | 253 | +,010 | — ,06 |
| 114 | 3 | +10 17 44,36 | 19,512 | +9,5866 | +9,2414 | ,2903 | ,3591 | 255 | +,012 | — ,15 |
| 115 | 3 | + 7 9 0,42 | 19,511 | +9,6042 | +9,0844 | ,2903 | ,3597 | 256 | +,004 | — ,07 |
| 116 | 3 | +11 1 38,48 | 19,510 | +9,5821 | +9,2708 | +1,2902 | —9,3602 | 257 | +,011 | + ,02 |
| 117 | 4 | + 5 52 59,12 | 19,458 | +9,6096 | +8,9991 | ,2891 | ,3801 | 269 | +,007 | — ,03 |
| 118 | 4 | + 6 10 11,51 | 19,436 | +9,6074 | +9,0189 | ,2886 | ,3877 | 271 | +,021 | — ,04 |
| 119 | 2 | +62 53 32,75 | 19,430 | —8,3222 | +9,9360 | ,2885 | ,3902 | 272 | +,014 | — ,05 |
| 120 | 2 | +20 35 8,29 | 19,424 | +9,5038 | +9,5327 | ,2883 | ,3922 | 276 | +,005 | — ,06 |
| 121 | 3 | + 4 2 3,91 | 19,414 | +9,6180 | +8,8351 | +1,2881 | —9,3957 | 281 | —,003 | — ,12 |
| 122 | 4 | +21 40 17,07 | 19,412 | +9,4928 | +9,5537 | ,2881 | ,3961 | 282 | +,019 | + ,07 |
| 123 | | —10 38 | 19,396 | +9,6749 | —9,2511 | ,2877 | ,4015 | 288 | | |
| 124 | 4 | +19 16 17,29 | 19,392 | +9,5145 | +9,5045 | ,2876 | ,4030 | 289 | +,905 | — ,08 |
| 125 | 3 | + 9 1 48,53 | 19,360 | +9,5888 | +9,1817 | ,2869 | ,4130 | 297 | +,011 | — ,08 |
| 126 | 4 | —42 21 57,64 | 19,350 | +9,6964 | —9,8130 | +1,2867 | —9,4163 | 303 | —,005 | — ,15 |
| 127 | 3 | +22 1 52,60 | 19,344 | +9,4829 | +9,5591 | ,2865 | ,4181 | 302 | +,005 | + ,11 |
| 128 | 2 | +21 42 8,32 | 19,342 | +9,4857 | +9,5527 | ,2865 | ,4186 | 304 | +,024 | — ,04 |
| 129 | 3 | +64 8 6,49 | 19,306 | —8,7243 | +9,9379 | ,2857 | ,4292 | 312 | +,011 | — ,05 |
| 130 | 3 | + 8 40 42,65 | 19,302 | +9,5888 | +9,1634 | ,2856 | ,4305 | 4 | +,010 | + ,24 |
| 131 | 4 | +21 50 59,81 | 19,289 | +9,4800 | +9,5544 | +1,2853 | —9,4341 | 7 | +,006 | + ,03 |
| 132 | 3 | +29 11 32,53 | 19,262 | +9,3874 | +9,6712 | ,2847 | ,4417 | 11 | +,014 | — ,12 |
| 133 | 3 | —36 4 38,72 | 19,234 | +9,7126 | —9,7518 | ,2841 | ,4490 | 18 | +,019 | — ,06 |
| 134 | 2 | + 6 42 35,10 | 19,232 | +9,5999 | +9,0501 | ,2840 | ,4495 | 17 | +,019 | + ,04 |
| 135 | 3 | +18 15 24,86 | 19,222 | +9,5092 | +9,4787 | ,2838 | ,4525 | 21 | +,017 | + ,03 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 136 | Ceti 8 | 3 | 1 6 7,20 | +3,009 | +8,8106 | +8,2845 | +0,4784 | —7,9936 |
| 137 | Piscium 7.8 | 3 | 7 1,88 | 3,109 | 8,8074 | ,2877 | ,4926 | +7,8338 |
| 138 | Cassiopeæ 7 | 2 | 7 16,32 | 3,660 | 9,0661 | ,5483 | ,5635 | +8,9887 |
| 139 | Piscium 8 | 2 | 8 50,72 | 3,094 | 8,8049 | ,2970 | ,4905 | +7,6300 |
| 140 | Cassiopeæ 7.8 | 3 | 9 36,27 | 3,694 | 9,0714 | ,5692 | ,5675 | +8,9967 |
| 141 | Cassiopeæ 8 | 5 | 10 12,78 | 3,890 | +8,1587 | +8,6600 | +0,5899 | +9,1117 |
| 142 | Piscium 7.8 | 5 | 10 23,42 | 3,095 | ,8039 | ,3066 | ,4907 | +7,6253 |
| 143 | ——— 8 | 3 | 10 25,28 | 3,115 | ,8058 | ,3085 | ,4935 | +7,8652 |
| 144 | ——— 8 | 4 | 11 0,63 | 3,116 | ,8055 | ,3121 | ,4936 | +7,8693 |
| 145 | ——— 7.8 | 3 | 11 13,83 | 3,106 | ,8043 | ,3126 | ,4922 | +7,7712 |
| 146 | Andromedæ 8 | 3 | 12 14,31 | 3,505 | +8,9635 | +8,4784 | +0,5447 | +8,8236 |
| 147 | Piscium 7.8 | 4 | 13 53,26 | 3,101 | ,8021 | ,3274 | ,4915 | +7,6886 |
| 148 | Andromedæ 7.8 | 4 | 14 45,84 | 3,459 | ,9313 | ,4621 | ,5389 | +8,7595 |
| 149 | Phœnicis 8 | 4 | 15 10,24 | 2,645 | ,9464 | ,4793 | ,4224 | —8,7917 |
| 150 | Piscium 7.8 | 3 | 15 19,55 | 3,102 | ,8012 | ,3353 | ,4916 | +7,6926 |
| 151 | Andromedæ 7 | 2 | 16 50,20 | 3,362 | +8,8791 | +8,4222 | +0,5266 | +8,6238 |
| 152 | Phœnicis 6.7 | 3 | 17 34,06 | 2,618 | ,9516 | ,4992 | ,4180 | —8,8037 |
| 153 | Persei 8 | 2 | 17 36,73 | 3,617 | ,9992 | ,5475 | ,5583 | +8,8895 |
| 154 | Piscium 8 | 3 | 19 52,19 | 3,125 | ,8002 | ,3617 | ,4948 | +7,8943 |
| 155 | ——— 7 | 4 | 20 22,16 | 3,277 | ,8373 | ,4019 | ,5155 | +8,4542 |
| 156 | Cassiopeæ 7.8 | 4 | 20 31,48 | 4,282 | +9,2457 | +8,8111 | +0,6324 | +9,2164 |
| 157 | Piscium 8 | 4 | 21 13,42 | 3,351 | 8,8645 | ,4338 | ,5252 | +8,5810 |
| 158 | Andromedæ 7.8 | 4 | 24 49,98 | 3,425 | 8,8877 | ,4778 | ,5347 | +8,6612 |
| 159 | 100² Piscium 7.8 | 3 | 26 10,91 | 3,170 | 8,8015 | ,3991 | ,5011 | +8,1097 |
| 160 | ——— 7.8 | 4 | 26 17,15 | 3,132 | 8,7959 | ,3939 | ,4958 | +7,9087 |
| 161 | Andromedæ 8 | 4 | 26 48,08 | 3,609 | +8,9621 | +8,5634 | +0,5574 | +8,8297 |
| 162 | ——— 7 | 4 | 27 42,41 | 3,616 | ,9623 | ,5683 | ,5582 | +8,8306 |
| 163 | Piscium 7.8 | 2 | 28 57,94 | 3,169 | ,7986 | ,4112 | ,5009 | +8,0895 |
| 164 | App. Sculp. 8.9 | 3 | 29 27,64 | 2,822 | ,8356 | ,4506 | ,4506 | —8,4748 |
| 165 | 103 Piscium 7.8 | 4 | 30 25,77 | 3,214 | ,8058 | ,4262 | ,5070 | +8,2413 |
| 166 | Cassiopeæ 7 | 7 | 31 35,96 | 3,961 | +9,0856 | +8,7127 | +0,5978 | +9,0219 |
| 167 | Piscium 7.8 | 4 | 32 10,48 | 3,312 | 8,8301 | ,4601 | ,5201 | +8,4550 |
| 168 | Phœnicis 8 | 3 | 32 27,38 | 2,653 | 8,8925 | ,5239 | ,4237 | —8,6846 |
| 169 | Piscium 8 | 3 | 32 47,76 | 3,145 | 8,7917 | ,4248 | ,4976 | +7,9494 |
| 170 | Cassiopeæ 8.9 | 2 | 32 53,30 | 3,969 | 9,0831 | ,7168 | ,5987 | +9,0189 |
| 171 | Ceti 7.8 | 2 | 33 22,88 | 2,848 | +8,8251 | +8,4573 | +0,4545 | —8,4046 |
| 172 | Andromedæ 8 | 3 | 33 34,44 | 3,697 | 8,9766 | 8,6139 | ,5678 | +8,8596 |
| 173 | Arietis 8.9 | 3 | 35 56,52 | 3,256 | 8,8090 | 8,4582 | ,5127 | +8,3227 |
| 174 | Camelop. 7.8 | 3 | 36 18,16 | 6,577 | 9,5971 | 9,2484 | ,8180 | +9,5919 |
| 175 | Piscium 7.8 | 4 | 38 27,66 | 3,167 | 8,7890 | 8,4511 | ,5006 | +8,0301 |
| 176 | Trianguli 7 | 4 | 39 19,07 | 3,417 | +8,8525 | +8,5189 | +0,5336 | +8,5751 |
| 177 | Arietis 8 | 4 | 39 28,67 | 3,232 | 8,7991 | ,4661 | ,5095 | +8,2451 |
| 178 | Persei 8 | 3 | 39 49,54 | 3,858 | 9,0163 | ,6853 | ,5864 | +8,9265 |
| 179 | Fornacis 8 | 4 | 41 1,16 | 2,776 | 8,8304 | ,5053 | ,4434 | —8,4882 |
| 180 | $\chi$ Ceti *præ.* 7 | 4 | 41 20,16 | 2,952 | 8,7886 | ,4648 | ,4701 | —8,0883 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 136 | 3 | — 8 47 35,27 | +19,210 | +9,6739 | —9,1646 | +1,2835 | —9,4555 | 22 | +,021 | + ,33 |
| 137 | 3 | + 6 5 13,03 | 19,187 | +9,6021 | +9,0074 | ,2830 | ,4614 | 28 | +,015 | — ,05 |
| 138 | 3 | +56 45 52,91 | 19,180 | —7,6990 | +9,9034 | ,2828 | ,4630 | 27 | —,010 | + ,07 |
| 139 | 4 | + 3 47 53,16 | 19,142 | +9,6159 | +8,8051 | ,2820 | ,4721 | 34 | +,016 | — ,05 |
| 140 | 2 | +57 20 37,10 | 19,119 | —8,2787 | +9,9048 | ,2815 | ,4773 | 35 | +,006 | + ,02 |
| 141 | 3 | +63 48 33,40 | 19,103 | —8,9031 | +9,9322 | +1,2811 | —9,4805 | 39 | +,077 | — ,01 |
| 142 | 4 | + 3 47 19,45 | 19,100 | +9,6159 | +8,8004 | ,2810 | ,4817 | 42 | +,011 | — ,07 |
| 143 | 4 | + 6 33 56,93 | 19,100 | +9,5977 | +9,0384 | ,2810 | ,4817 | 43 | +,019 | + ,02 |
| 144 | 4 | + 6 37 37,19 | 19,084 | +9,5977 | +9,0424 | ,2807 | ,4853 | 45 | +,022 | ,00 |
| 145 | 4 | + 5 17 48,94 | 19,076 | +9,6064 | +8,9454 | ,2805 | ,4869 | 46 | +,013 | — ,07 |
| 146 | 4 | +46 25 15,83 | 19,050 | +8,8633 | +9,8380 | +1,2799 | —9,4927 | 49 | +,020 | + ,11 |
| 147 | 4 | + 4 23 30,12 | 19,004 | +9,6117 | +8,8634 | ,2788 | ,5022 | 54 | +,007 | — ,11 |
| 148 | 4 | +42 17 2,66 | 18,980 | +9,0212 | +9,8045 | ,2783 | ,5071 | 61 | +,006 | + ,03 |
| 149 | 4 | —44 27 49,99 | 18,970 | +9,7292 | —9,8214 | ,2781 | ,5089 | 65 | +,024 | + ,02 |
| 150 | 4 | + 4 27 4,63 | 18,964 | +9,6107 | +8,8674 | ,2779 | ,5101 | 64 | +,013 | — ,07 |
| 151 | 4 | +33 43 39,18 | 18,923 | +9,2504 | +9,7197 | +1,2770 | —9,5181 | 70 | +,038 | — ,12 |
| 152 | 3 | —45 23 6,12 | 18,901 | +9,7340 | —9,8266 | ,2765 | ,5221 | 78 | ,000 | — ,04 |
| 153 | 4 | +50 57 17,48 | 18,897 | +8,1461 | +9,8647 | ,2764 | ,5228 | 71 | +,005 | ,00 |
| 154 | 3 | + 7 6 25,19 | 18,833 | +9,5899 | +9,0670 | ,2749 | ,5344 | 87 | +,009 | + ,02 |
| 155 | 5 | +24 25 25,33 | 18,816 | +9,4031 | +9,5895 | ,2745 | ,5372 | 90 | +,013 | — ,02 |
| 156 | 4 | +69 10 15,07 | 18,812 | —9,2253 | +9,9432 | +1,2744 | —9,5378 | 86 | +,025 | — ,02 |
| 157 | 3 | +31 20 20,36 | 18,793 | +9,2787 | +9,6884 | ,2740 | ,5413 | 93 | +,012 | + ,09 |
| 158 | 4 | +36 23 38,96 | 18,678 | +9,1271 | +9,7429 | ,2713 | ,5595 | 104 | +,007 | + ,07 |
| 159 | 8 | +11 43 1,83 | 18,638 | +9,5428 | +9,2766 | ,2703 | ,5660 | 112 | +,012 | — ,04 |
| 160 | 4 | + 7 25 57,36 | 18,633 | +9,5821 | +9,0811 | ,2703 | ,5663 | 114 | +,005 | — ,04 |
| 161 | 4 | +47 28 29,98 | 18,615 | +8,3010 | +9,8355 | +1,2698 | —9,5692 | 115 | +,013 | — ,03 |
| 162 | 4 | +47 34 22,85 | 18,587 | +8,2304 | +9,8355 | ,2692 | ,5733 | 121 | +,029 | + ,05 |
| 163 | 4 | +11 14 25,10 | 18,547 | +9,5465 | +9,2572 | ,2683 | ,5788 | 128 | +,027 | + ,02 |
| 164 | 4 | —25 51 16,96 | 18,531 | +9,7459 | —9,6052 | ,2679 | ,5810 | 134 | +,028 | — ,02 |
| 165 | 4 | +15 47 27,61 | 18,497 | +9,4955 | +9,4006 | ,2671 | ,5856 | 135 | +,006 | — ,06 |
| 166 | 2 | +59 42 53,84 | 18,455 | —9,0719 | +9,9005 | +1,2661 | —9,5913 | 139 | +,031 | — ,09 |
| 167 | 3 | +24 54 49,94 | 18,434 | +9,3598 | +9,5886 | ,2657 | ,5937 | 145 | +,011 | — ,09 |
| 168 | 3 | —38 18 20,43 | 18,427 | +9,7672 | —9,7556 | ,2655 | ,5948 | 147 | +,008 | + ,17 |
| 169 | 4 | + 8 14 25,08 | 18,417 | +9,5705 | +9,1209 | ,2652 | ,5963 | 149 | +,006 | + ,01 |
| 170 | 3 | +59 36 20,65 | 18,411 | —9,0864 | +9,8989 | ,2651 | ,5969 | 146 | +,032 | — ,05 |
| 171 | 2 | —22 33 3,45 | 18,395 | +9,7427 | —9,5462 | +1,2647 | —9,5989 | 153 | +,019 | — ,08 |
| 172 | 2 | +49 46 56,58 | 18,388 | —8,3802 | +9,8455 | ,2645 | ,5998 | 152 | +,027 | — ,20 |
| 173 | 5 | +19 1 49,21 | 18,305 | +9,4425 | +9,4744 | ,2626 | ,6099 | 161 | +,006 | — ,01 |
| 174 | 3 | +81 8 31,49 | 18,291 | —9,5276 | +9,9551 | ,2622 | ,6116 | 155 | +,137 | + ,06 |
| 175 | 4 | +10 1 14,93 | 18,214 | +9,5490 | +9,1995 | ,2604 | ,6205 | 169 | +,009 | — ,15 |
| 176 | 3 | +31 51 24,39 | 18,183 | +9,1673 | +9,6803 | +1,2597 | —9,6240 | 171 | —,010 | + ,36 |
| 177 | 4 | +16 12 1,83 | 18,178 | +9,4757 | +9,4036 | ,2595 | ,6246 | 174 | +,001 | + ,08 |
| 178 | 4 | +54 23 53,76 | 18,163 | —8,9590 | +9,8674 | ,2592 | ,6262 | 173 | +,020 | — ,06 |
| 179 | 4 | —27 4 22,80 | 18,118 | +9,7634 | —9,6139 | ,2581 | ,6311 | 180 | | + ,02 |
| 180 | 4 | —11 31 2,54 | 18,108 | +9,7076 | —9,2556 | ,2579 | ,6321 | 182 | +,005 | — ,06 |

| No. | Star's name and Mag. | | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | *a* | *b* | *c* | *d* |
| | | | | *h. m. s.* | *s.* | | | | |
| 181 | Piscium | 9 | 2 | 1 43 8,76 | +3,102 | +8,7789 | +8,4641 | +0,4916 | +7,5434 |
| 182 | Ceti | 8 | 4 | 43 20,57 | 3,171 | 8,7846 | 8,4709 | ,5012 | +8,0250 |
| 183 | MESARTHIM | 8 | 2 | 44 32,60 | 3,265 | 8,8000 | 8,4917 | ,5139 | +8,3018 |
| 184 | Cassiopeæ | 7.8 | 4 | 45 32,67 | 5,315 | 9,3676 | 9,0644 | ,7255 | +9,3529 |
| 185 | Andromedæ | 7.8 | 4 | 47 45,29 | 3,703 | 8,9345 | 8,6417 | ,5685 | +8,7938 |
| 186 | Ceti | 8 | 5 | 51 36,77 | 3,135 | +8,7726 | +8,4973 | +0,4962 | +7,8025 |
| 187 | Piscium | 8 | 4 | 51 50,53 | 3,108 | 8,7706 | ,4966 | ,4925 | +7,5705 |
| 188 | Cassiopeæ | 8 | 2 | 52 54,97 | 4,345 | 9,1209 | ,8520 | ,6380 | +9,0731 |
| 189 | Ceti | 7.8 | 3 | 53 13,16 | 3,147 | 8,7718 | ,5038 | ,4979 | +7,8638 |
| 190 | Andromedæ | 7.8 | 2 | 53 52,61 | 3,634 | 8,8937 | ,6288 | ,5604 | +8,7156 |
| 191 | Arietis | 7.8 | 4 | 55 4,63 | 3,370 | +8,8098 | +8,5502 | +0,5276 | +8,4381 |
| 192 | Ceti | 8 | 2 | 55 11,12 | 3,010 | ,7682 | ,5091 | ,4786 | —7,7171 |
| 193 | ——— | 8 | 5 | 58 56,85 | 3,162 | ,7667 | ,5244 | ,5000 | +7,9147 |
| 194 | Persei | 8.9 | 4 | 59 5,80 | 3,969 | ,9885 | ,7470 | ,5987 | +8,8940 |
| 195 | Ceti | 8 | 8 | 59 38,64 | 3,163 | ,7660 | ,5266 | ,5001 | +7,9140 |
| 196 | 62 Ceti | 8 | 4 | 2 0 51,73 | 3,032 | +8,7609 | +8,5270 | +0,4817 | —7,4939 |
| 197 | Arietis | 8 | 2 | 2 11,79 | 3,324 | ,7875 | ,5594 | ,5217 | +8,3342 |
| 198 | ——— | 8 | 4 | 3 48,61 | 3,306 | ,7814 | ,5605 | ,5193 | +8,2955 |
| 199 | 66 Ceti *præ.* | *var.* | 4 | 4 24,63 | 3,030 | ,7569 | ,5383 | ,4814 | —7,4969 |
| 200 | ——— | 8 | 3 | 4 30,79 | 3,111 | ,7570 | ,5388 | ,4929 | +7,5467 |
| 201 | Persei | 7.8 | 3 | 5 22,59 | 4,111 | +9,0108 | +8,7964 | +0,6139 | +8,9308 |
| 202 | Ceti | 7 | 3 | 5 25,43 | 3,022 | 8,7561 | ,5417 | ,4803 | —7,5756 |
| 203 | Persei | 7.8 | 5 | 5 27,52 | 4,113 | 9,0106 | ,7968 | ,6142 | +8,9306 |
| 204 | Andromedæ | 8 | 2 | 5 54,30 | 3,847 | 8,9301 | ,7180 | ,5851 | +8,8021 |
| 205 | Persei | 8.9 | 4 | 6 2,12 | 4,156 | 9,0214 | ,8098 | ,6187 | +8,9463 |
| 206 | Ceti | 7.8 | 3 | 6 10,72 | 3,079 | +8,7543 | +8,5433 | +0,4884 | +6,9662 |
| 207 | Persei | 7 | 1 | 7 37,01 | 4,133 | 9,0093 | ,8045 | ,6163 | +8,9298 |
| 208 | Trianguli | 8 | 4 | 7 55,24 | 3,445 | 8,8062 | ,6026 | ,5372 | +8,4778 |
| 209 | ——— | 8 | 3 | 7 55,59 | 3,445 | 8,8062 | ,6026 | ,5372 | +8,4778 |
| 210 | Ceti | 7.8 | 3 | 8 0,26 | 3,086 | 8,7522 | ,5489 | ,4894 | +7,1702 |
| 211 | Ceti | 8 | 2 | 8 33,10 | 3,023 | +8,7523 | +8,5512 | +0,4804 | —7,5562 |
| 212 | ——— | 9 | 3 | 8 44,04 | 3,125 | ,7526 | ,5523 | ,4948 | +7,6584 |
| 213 | Eridani | 7.8 | 4 | 8 46,63 | 2,431 | ,8788 | ,6788 | ,3858 | —8,7028 |
| 214 | Ceti | 7.8 | 2 | 8 47,98 | 2,977 | ,7547 | ,5547 | ,4738 | —7,8597 |
| 215 | ——— | 11 | 1 | 11 11,67 | 3,021 | ,7491 | ,5592 | ,4801 | —7,5589 |
| 216 | Andromedæ | 7.8 | 4 | 12 42,25 | 3,699 | +8,8669 | +8,6833 | +0,5681 | +8,6817 |
| 217 | Ceti | 8 | 4 | 12 51,69 | 3,158 | ,7494 | ,5664 | ,4994 | +7,8364 |
| 218 | ——— | 9.10 | 3 | 13 20,79 | 3,020 | ,7464 | ,5656 | ,4800 | —7,5562 |
| 219 | ——— | 8.9 | 3 | 13 21,08 | 3,054 | ,7457 | ,5645 | ,4849 | —7,0223 |
| 220 | ——— | 7.8 | 4 | 13 23,69 | 3,071 | ,7455 | ,5646 | ,4873 | +6,3554 |
| 221 | Tri. Min. | 7.8 | 4 | 15 56,06 | 3,485 | +8,8012 | +8,6307 | +0,5422 | +8,4890 |
| 222 | Ceti | 8.9 | 4 | 16 43,66 | 3,067 | ,7413 | ,5741 | ,4867 | —5,9040 |
| 223 | Persei | 8 | 4 | 16 51,71 | 4,026 | ,9501 | ,7837 | ,6049 | +8,8456 |
| 224 | Arietis | 7.8 | 3 | 16 55,02 | 3,198 | ,7474 | ,5810 | ,5049 | +7,9776 |
| 225 | ——— | 7 | 3 | 17 23,15 | 3,201 | ,7470 | ,5825 | ,5053 | +7,9838 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | s. | ″ |
| 181 | 4 | + 3 18 51,23 | +18,040 | +9,6107 | +8,7187 | +1,2562 | —9,6395 | 189 | +,005 | ,00 |
| 182 | 4 | + 9 59 44,00 | 18,033 | +9,5453 | +9,1944 | ,2560 | ,6403 | 191 | +,011 | — ,22 |
| 183 | 2 | +18 29 32,36 | 17,987 | +9,4330 | +9,4548 | ,2549 | ,6447 | 196 | +,007 | + ,15 |
| 184 | 4 | +75 8 52,66 | 17,945 | —9,5051 | +9,9373 | ,2539 | ,6488 | 195 | +,037 | — ,07 |
| 185 | 4 | +46 17 30,49 | 17,859 | —8,4472 | +9,8091 | ,2518 | ,6570 | 207 | +,005 | + ,09 |
| 186 | 4 | + 6 7 15,70 | 17,706 | +9,5821 | +8,9761 | +1,2481 | —9,6709 | 227 | +,008 | + ,05 |
| 187 | 4 | + 3 35 27,02 | 17,695 | +9,6053 | +8,7458 | ,2478 | ,6718 | 228 | ,000 | + ,03 |
| 188 | 4 | +63 35 33,51 | 17,647 | —9,3655 | +9,8969 | ,2467 | ,6759 | 230 | +,009 | + ,06 |
| 189 | 4 | + 7 4 18,39 | 17,639 | +9,5705 | +9,0365 | ,2465 | ,6766 | 234 | +,021 | — ,08 |
| 190 | 2 | +41 32 26,99 | 17,612 | +7,9031 | +9,7657 | ,2458 | ,6789 | 237 | +,017 | — ,08 |
| 191 | 3 | +25 7 40,17 | 17,562 | +9,2742 | +9,5710 | +1,2446 | —9,6830 | 245 | +,014 | — ,17 |
| 192 | 4 | — 5 7 25,14 | 17,556 | +9,6767 | —8,8914 | ,2445 | ,6835 | 246 | +,018 | — ,07 |
| 193 | 4 | + 8 3 40,93 | 17,396 | +9,5563 | +9,0865 | ,2404 | ,6961 | 258 | +,014 | ,00 |
| 194 | 4 | +53 32 56,16 | 17,387 | —9,1523 | +9,8438 | ,2402 | ,6968 | 255 | +,035 | — ,14 |
| 195 | 5 | + 8 4 6,01 | 17,367 | +9,5563 | +9,0858 | ,2397 | ,6983 | 261 | +,011 | — ,10 |
| 196 | 4 | — 3 6 35,54 | 17,311 | +9,6628 | —8,6694 | +1,2383 | —9,7024 | 265 | +,001 | — ,02 |
| 197 | 4 | +20 36 2,97 | 17,252 | +9,3560 | +9,4815 | ,2368 | ,7067 | 1 | +,031 | + ,02 |
| 198 | 4 | +19 2 52,21 | 17,177 | +9,3838 | +9,4471 | ,2350 | ,7120 | 12 | +,007 | — ,08 |
| 199 | 4 | — 3 9 55,97 | 17,154 | +9,6637 | —8,6723 | ,2343 | ,7137 | 17 | +,028 | — ,08 |
| 200 | 4 | + 3 30 49,38 | 17,147 | +9,6031 | +8,7220 | ,2342 | ,7141 | 19 | +,009 | — ,02 |
| 201 | 2 | +56 15 42,10 | 17,108 | —9,2833 | +9,8512 | +1,2332 | —9,7168 | 21 | +,013 | + ,03 |
| 202 | 3 | — 3 48 4,41 | 17,108 | +9,6693 | —8,7507 | ,2332 | ,7168 | 26 | +,013 | + ,05 |
| 203 | 4 | +56 17 17,27 | 17,102 | —9,2856 | +9,8511 | ,2330 | ,7173 | 22 | +,014 | + ,11 |
| 204 | 4 | +48 6 40,02 | 17,084 | —8,9956 | +9,8026 | ,2326 | ,7185 | 25 | +,017 | — ,01 |
| 205 | 2 | +57 15 19,79 | 17,078 | —9,3117 | +9,8553 | ,2324 | ,7189 | 24 | +,002 | + ,03 |
| 206 | 4 | + 0 54 31,15 | 17,074 | +9,6284 | +8,1422 | +1,2323 | —9,7193 | 31 | +,014 | — ,05 |
| 207 | 3 | +56 22 23,96 | 17,005 | —9,3032 | +9,8491 | ,2305 | ,7238 | 35 | +,002 | + ,10 |
| 208 | 3 | +27 59 2,02 | 16,992 | +9,1271 | +9,5999 | ,2302 | ,7246 | 38 | +,028 | + ,29 |
| 209 | 4 | +27 59 2,42 | 16,994 | +9,1271 | +9,5999 | ,2302 | ,7246 | 39 | +,019 | — ,09 |
| 210 | 3 | + 1 28 26,94 | 16,988 | +9,6232 | +8,3461 | ,2301 | ,7248 | 40 | +,009 | + ,07 |
| 211 | 2 | — 3 40 6,08 | 16,964 | +9,6693 | —8,7314 | +1,2295 | —9,7264 | 44 | +,009 | + ,03 |
| 212 | 4 | + 4 35 41,79 | 16,954 | +9,5911 | +8,8330 | ,2293 | ,7270 | 45 | +,019 | — ,12 |
| 213 | 3 | —41 50 7,81 | 16,954 | +9,8319 | —9,7512 | ,2292 | ,7272 | 50 | —,009 | + ,03 |
| 214 | 2 | — 7 20 31,50 | 16,951 | +9,6972 | —9,0322 | ,2292 | ,7272 | 48 | —,004 | + ,03 |
| 215 | 6 | — 3 43 28,35 | 16,842 | +9,6702 | —8,7341 | ,2263 | ,7343 | 57 | | — ,17 |
| 216 | 4 | +40 43 38,09 | 16,765 | —8,4624 | +9,7372 | +1,2244 | —9,7388 | 62 | +,040 | — ,01 |
| 217 | 4 | + 6 59 54,75 | 16,758 | +9,5611 | +9,0092 | ,2242 | ,7392 | 63 | +,002 | + ,07 |
| 218 | 4 | — 3 42 47,68 | 16,732 | +9,6712 | —8,7314 | ,2236 | ,7407 | 67 | +,001 | + ,07 |
| 219 | 4 | — 1 6 14,24 | 16,734 | +9,6474 | —8,1983 | ,2237 | ,7405 | 66 | +,008 | — ,14 |
| 220 | 4 | + 0 12 55,87 | 16,732 | +9,6355 | +7,5315 | ,2236 | ,7407 | 68 | +,007 | — ,13 |
| 221 | 4 | +29 8 8,31 | 16,610 | +9,0253 | +9,6062 | +1,2204 | —9,7479 | 74 | +,014 | — ,05 |
| 222 | 4 | — 0 6 32,94 | 16,571 | +9,6385 | —7,0801 | ,2193 | ,7502 | 81 | +,016 | — ,21 |
| 223 | 4 | +51 48 26,73 | 16,561 | —9,2430 | +9,8127 | ,2191 | ,7507 | 78 | +,010 | + ,08 |
| 224 | 4 | + 9 45 35,00 | 16,561 | +9,5211 | +9,1474 | ,2191 | ,7507 | 82 | +,016 | — ,17 |
| 225 | 4 | + 9 54 15,81 | 16,537 | +9,5185 | +9,1533 | ,2185 | ,7520 | 83 | +,008 | — ,34 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h. m. s.* | *s.* | | | | |
| 226 | Trianguli 8 | 5 | 2 18 35,21 | +3,492 | +8,7977 | +8,6380 | +0,5431 | +8,4853 |
| 227 | ——— 10 | 3 | 19 8,74 | 3,490 | ,7962 | ,6387 | ,5428 | +8,4813 |
| 228 | Persei 8 | 4 | 22 12,35 | 3,592 | ,8152 | ,6704 | ,5553 | +8,5624 |
| 229 | Ceti 9 | 5 | 24 20,50 | 3,154 | ,7337 | ,5971 | ,4989 | +7,7706 |
| 230 | Trianguli 8 | 3 | 25 55,43 | 3,605 | ,8104 | ,6801 | ,3569 | +8,5582 |
| 231 | Persei 8 | 4 | 27 6,64 | 4,016 | +8,9171 | +8,7918 | +0,6038 | +8,8000 |
| 232 | Ceti 8.9 | 3 | 27 18,64 | 3,010 | ,7282 | ,6052 | ,4786 | —7,5894 |
| 233 | Arietis 8 | 4 | 28 53,16 | 3,234 | ,7335 | ,6151 | ,5097 | +8,0357 |
| 234 | Persei 7.8 | 4 | 29 18,26 | 3,997 | ,9059 | ,7891 | ,6017 | +8,7828 |
| 235 | Ceti 9 | 4 | 31 22,25 | 2,887 | ,7313 | ,6226 | ,4604 | —8,0644 |
| 236 | Ceti 7.8 | 3 | 32 30,10 | 3,146 | +8,7213 | +8,6169 | +0,4978 | +7,6936 |
| 237 | Trianguli 8 | 3 | 34 53,84 | 3,528 | ,7730 | ,6780 | ,5475 | +8,4556 |
| 238 | Ceti 9 | 4 | 35 20,11 | 3,099 | ,7154 | ,6220 | ,4912 | +7,2863 |
| 239 | ——— 8.9 | 5 | 35 55,89 | 3,141 | ,7158 | ,6247 | ,4971 | +7,6547 |
| 240 | Persei 8.9 | 4 | 36 41,90 | 4,108 | ,9129 | ,8251 | ,6136 | +8,8027 |
| 241 | Ceti 7 | 3 | 36 45,46 | 3,128 | +8,7140 | +8,6260 | +0,4953 | +7,5612 |
| 242 | Persei 9 | 2 | 37 42,10 | 4,029 | ,8903 | ,8061 | ,6052 | +8,7649 |
| 243 | Ceti 7.8 | 2 | 37 36,96 | 3,141 | ,7132 | ,6286 | ,4971 | +7,7462 |
| 244 | Arietis 7.8 | 4 | 37 58,72 | 3,243 | ,7200 | ,6368 | ,5109 | +8,0233 |
| 245 | Persei 8 | 4 | 39 4,84 | 4,149 | ,9162 | ,8374 | ,6179 | +8,8104 |
| 246 | Fornacis 8.9 | 5 | 40 24,31 | 2,395 | +8,8108 | +8,7369 | +0,3793 | —8,6003 |
| 247 | Persei 8.9 | 4 | 40 32,07 | 4,154 | ,9131 | ,8399 | ,6185 | +8,8068 |
| 248 | Fornacis 9 | 4 | 42 26,54 | 2,503 | ,7805 | ,7143 | ,3985 | —8,5168 |
| 249 | ——— 8.9 | 5 | 42 29,59 | 2,536 | ,7729 | ,7070 | ,4041 | —8,4906 |
| 250 | Eridani 9 | 4 | 45 26,56 | 2,920 | ,7049 | ,6505 | ,4654 | —7,9225 |
| 251 | Cassiopeæ 7 | 4 | 46 52,90 | 4,651 | +9,0059 | +8,9570 | +0,6675 | +8,9462 |
| 252 | Persei 8.9 | 1 | 49 14,60 | 4,210 | 8,9003 | ,8605 | ,6243 | +8,7951 |
| 253 | ——— 7.8 | 5 | 49 49,97 | 3,760 | 8,7919 | ,7543 | ,5752 | +8,5764 |
| 254 | 24S ——— 7.8 | 3 | 51 1,56 | 3,715 | 8,7785 | ,7454 | ,5700 | +8,5423 |
| 255 | $\theta$ Eridani *seq.* 6 | 5 | 52 3,30 | 2,277 | 8,8096 | ,7800 | ,3574 | —8,6261 |
| 256 | Eridani 7.8 | 4 | 52 52,35 | 2,470 | +8,7633 | +8,7370 | +0,3927 | —8,5011 |
| 257 | Arietis 8 | 5 | 3 0 2,02 | 3,273 | ,6829 | ,6839 | ,5150 | +8,0090 |
| 258 | ——— 8.9 | 5 | 0 28,51 | 3,351 | ,6907 | ,6932 | ,5252 | +8,1479 |
| 259 | Persei 7.8 | 3 | 2 0,76 | 4,110 | ,8392 | ,8481 | ,6138 | +8,7069 |
| 260 | ——— 7.8 | 4 | 2 2,73 | 4,112 | ,8398 | ,8486 | ,6140 | +8,7079 |
| 261 | Camelop. 7.8 | 4 | 3 15,12 | 5,132 | +9,0413 | +9,0550 | +0,7103 | +8,9991 |
| 262 | Eridani 6.7 | 5 | 4 55,68 | 2,517 | 8,7249 | 8,7444 | ,4009 | —8,4208 |
| 263 | Tauri 8.9 | 5 | 5 22,36 | 3,625 | 8,7248 | 8,7460 | ,5593 | +8,4231 |
| 264 | ——— 8.9 | 4 | 7 57,73 | 3,366 | 8,6768 | 8,7078 | ,5271 | +8,1422 |
| 265 | ——— 7.8 | 3 | 10 27,84 | 3,398 | 8,6752 | 8,7157 | ,5312 | +8,1767 |
| 266 | Arietis 8 | 4 | 13 52,37 | 3,440 | +8,6730 | +8,7267 | +0,5366 | +8,2153 |
| 267 | Persei 8 | 5 | 15 58,19 | 4,232 | ,8237 | ,8856 | ,6265 | +8,7019 |
| 268 | ——— 8.9 | 1 | 16 25,61 | 4,211 | ,8180 | ,8816 | ,6244 | +8,6924 |
| 269 | Camelop. 8.9 | 5 | 17 44,81 | 4,510 | ,8759 | ,9444 | ,6542 | +8,7853 |
| 270 | Persei 8.9 | 1 | 18 19,07 | 4,176 | ,8047 | ,8755 | ,6208 | +8,6718 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | s. | ″ |
| 226 | 4 | +29 7 59,73 | +16,477 | +9,0086 | +9,6026 | +1,2169 | —9,7553 | 89 | +,017 | —0,02 |
| 227 | 2 | +28 56 54,30 | 16,452 | 9,0128 | 9,5994 | ,2162 | ,7568 | 92 | | — ,04 |
| 228 | 4 | +33 56 53,69 | 16,295 | 8,5401 | 9,6572 | ,2120 | ,7652 | 103 | +,008 | ,00 |
| 229 | 3 | + 6 13 47,29 | 16,188 | 9,5647 | 8,9441 | ,2092 | ,7706 | 111 | +,030 | + ,11 |
| 230 | 4 | +34 0 13,33 | 16,140 | 8,4314 | 9,6527 | ,2070 | ,7747 | 117 | +,035 | — ,08 |
| 231 | 4 | +49 46 22,00 | 16,039 | —9,2504 | +9,7861 | +1,2052 | —9,7779 | 119 | +,007 | — ,17 |
| 232 | 4 | — 4 10 43,13 | 16,032 | +9,6785 | —8,7644 | ,2051 | ,7781 | 127 | ,016 | + ,04 |
| 233 | 4 | +11 33 12,77 | 15,948 | +9,4829 | +9,2028 | ,2027 | ,7823 | 134 | ,024 | + ,04 |
| 234 | 2 | +48 50 51,86 | 15,926 | —9,2355 | +9,7770 | ,2021 | ,7833 | 133 | ,024 | + ,02 |
| 235 | 4 | —12 27 34,61 | 15,819 | +9,7451 | —9,2302 | ,1991 | ,7884 | 145 | ,013 | ,00 |
| 236 | 4 | + 5 21 49,08 | 15,754 | +9,5729 | +8,8677 | +1,1974 | —9,7911 | 151 | +,002 | — ,06 |
| 237 | 5 | +28 45 47,06 | 15,625 | +8,8921 | 9,5744 | ,1938 | ,7968 | 160 | ,007 | — ,04 |
| 238 | 2 | + 2 7 2,94 | 15,602 | +9,6138 | 8,4621 | ,1932 | ,7978 | 163 | ,006 | — ,05 |
| 239 | 4 | + 4 57 30,15 | 15,569 | +9,5775 | 8,8291 | ,1923 | ,7992 | 165 | ,016 | — ,17 |
| 240 | 4 | +50 51 30,43 | 15,525 | —9,3365 | 9,7787 | ,1909 | ,8013 | 169 | ,004 | + ,04 |
| 241 | 2 | + 4 1 0,01 | 15,525 | +9,5899 | +8,7362 | +1,1910 | —9,8010 | 171 | +,016 | — ,04 |
| 242 | 2 | +48 29 35,28 | 15,470 | —9,2765 | 9,7621 | ,1895 | ,8034 | 172 | ,013 | — ,08 |
| 243 | 4 | + 4 53 55,45 | 15,481 | +9,5775 | 8,8207 | ,1897 | ,8030 | 174 | ,023 | — ,23 |
| 244 | 3 | +11 34 9,04 | 15,459 | +9,4728 | 9,1904 | ,1891 | ,8040 | 177 | ,019 | + ,01 |
| 245 | 4 | +51 35 50,55 | 15,391 | —9,3674 | 9,7796 | ,1873 | ,8066 | 180 | ,006 | + ,17 |
| 246 | 4 | —38 2 6,63 | 15,320 | +9,8686 | —9,6728 | +1,1853 | —9,8094 | 187 | +,025 | + ,01 |
| 247 | 5 | +51 31 6,60 | 15,309 | —9,3711 | + ,7767 | ,1849 | ,8099 | 184 | ,021 | + ,09 |
| 248 | 4 | —33 3 46,08 | 15,207 | +9,8567 | — ,6164 | ,1820 | ,8139 | 196 | ,007 | + ,24 |
| 249 | 4 | —31 29 54,32 | 15,203 | +9,8513 | — ,5976 | ,1819 | ,8140 | 197 | ,004 | + ,04 |
| 250 | 5 | — 9 31 23,11 | 15,030 | +9,7300 | — ,0926 | ,1770 | ,8205 | 209 | ,004 | — ,07 |
| 251 | 6 | +60 37 31,65 | 14,947 | —9,5658 | +9,8128 | +1,1745 | —9,8237 | 211 | +,012 | + ,09 |
| 252 | 2 | +51 41 40,02 | 14,805 | —9,4150 | + ,7633 | ,1704 | ,8287 | 222 | —,006 | + ,10 |
| 253 | 4 | +37 28 25,27 | 14,772 | —8,8261 | + ,6520 | ,1695 | ,8298 | 223 | —,006 | — ,05 |
| 254 | 4 | +35 27 38,65 | 14,702 | —8,6232 | + ,6292 | ,1674 | ,8323 | 227 | +,002 | — ,17 |
| 255 | 4 | —40 57 52,78 | 14,647 | +9,8893 | — ,6803 | ,1657 | ,8342 | 239 | —,007 | + ,04 |
| 256 | 4 | —33 9 47,92 | 14,595 | +9,8681 | —9,6001 | +1,1642 | —9,8359 | 243 | ,000 | — ,02 |
| 257 | 4 | +12 13 37,17 | 14,157 | +9,4377 | + ,1751 | ,1509 | ,8500 | 263 | +,013 | — ,08 |
| 258 | 4 | +16 37 56,72 | 14,132 | +9,3284 | + ,3054 | ,1502 | ,8507 | 266 | ,010 | — ,02 |
| 259 | 3 | +47 29 17,27 | 14,032 | —9,3674 | + ,7126 | ,1470 | ,8539 | 268 | ,000 | — ,14 |
| 260 | 4 | +47 33 15,82 | 14,032 | —9,3692 | + ,7131 | ,1470 | ,8539 | 269 | ,008 | — ,02 |
| 261 | 2 | +65 2 26,76 | 13,948 | —9,6702 | +9,8001 | +1,1445 | —9,8562 | 1 | +,001 | — ,07 |
| 262 | 4 | —29 46 56,94 | 13,852 | +9,8669 | — ,5354 | ,1415 | ,8590 | 10 | —,010 | — ,09 |
| 263 | 4 | +29 56 23,31 | 13,822 | +8,1461 | + ,5369 | ,1406 | ,8598 | 9 | —,001 | — ,10 |
| 264 | 4 | +16 57 55,28 | 13,657 | +9,3032 | + ,2989 | ,1353 | ,8645 | 21 | +,015 | + ,06 |
| 265 | 6 | +18 28 32,25 | 13,498 | +9,2480 | + ,3298 | ,1303 | ,8688 | 33 | ,012 | + ,08 |
| 266 | 4 | +20 22 43,16 | 13,278 | +9,1643 | +9,3633 | +1,1231 | —9,8747 | 46 | +,008 | — ,16 |
| 267 | 2 | +49 1 10,61 | 13,132 | —9,4579 | ,6945 | ,1183 | ,8782 | 52 | —,002 | + ,01 |
| 268 | 1 | +48 28 57,05 | 13,101 | —9,4456 | ,6898 | ,1173 | ,8790 | 53 | +,008 | — ,09 |
| 269 | 4 | +54 47 57,10 | 13,017 | —9,5694 | ,7249 | ,1145 | ,8810 | 58 | +,005 | + ,10 |
| 270 | 2 | +47 24 13,98 | 12,977 | —9,4265 | ,6783 | ,1132 | ,8820 | 61 | +,023 | + ,10 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h. m. s.* | *s.* | | | | |
| 316 | Eridani 9.10 | 2 | 4 4 40,96 | +2,919 | +8,5100 | +8,7701 | +0,4652 | —7,6110 |
| 317 | Tauri 8 | 3 | 4 59,87 | 3,287 | ,5128 | ,7745 | ,5168 | +7,7782 |
| 318 | ——— 8 | 5 | 6 42,60 | 3,187 | ,5015 | ,7710 | ,5034 | +7 5061 |
| 319 | ——— 9 | 4 | 7 29,97 | 3,207 | ,4997 | ,7731 | ,5061 | +7'5710 |
| 320 | Persei 8 | 3 | 12 7,40 | 4,512 | ,6756 | ,9704 | ,6544 | +8,5628 |
| 321 | Tauri 9 | 4 | 12 26,16 | 3,067 | +8,4787 | +8,7744 | +0,4867 | —6,2212 |
| 322 | Horologii 6.7 | 4 | 14 5,71 | 1,886 | 8,6206 | 8,9238 | ,2755 | +8,4674 |
| 323 | Tauri 8 | 2 | 16 35,81 | 3,532 | 8,4928 | 8,8085 | ,5480 | +8,0494 |
| 324 | Camelop. 9 | 4 | 17 38,42 | 10,067 | 9,2237 | 9,5466 | 1,0029 | +9,2202 |
| 325 | Tauri 7.8 | 4 | 18 17,38 | 3,538 | 8,4864 | 8,8105 | 0,5488 | +8,0457 |
| 326 | Tauri 8 | 3 | 18 58,63 | 3,413 | +8,4701 | +8,7975 | +0,5331 | +7,9091 |
| 327 | Camelop. 8 | 3 | 20 32,93 | 10,208 | 9,2206 | 9,5579 | 1,0090 | 9,2144 |
| 328 | Tauri 9.10 | 4 | 21 54,56 | 3,379 | 8,4548 | 8,7968 | 0,5288 | 7,8490 |
| 329 | Persei 9 | 4 | 22 32,87 | 4,194 | ,5724 | ,9177 | 0,6226 | 8,4041 |
| 330 | Tauri 8 | 4 | 26 3,31 | 3,505 | ,4492 | ,8126 | 0,5447 | 7,9755 |
| 331 | Tauri 9 | 4 | 26 35,20 | 3,281 | +8,4283 | +8,7934 | +0,5160 | +7,6614 |
| 332 | Eridani 8 | 2 | 27 27,67 | 2,882 | ,4222 | ,7926 | ,4597 | —7,5986 |
| 333 | ——— 8.9 | 4 | 29 17,19 | 2,878 | ,4143 | ,7942 | ,4591 | —7,5973 |
| 334 | ——— 9.10 | 2 | 29 29,06 | 3,004 | ,4088 | ,7898 | ,4777 | —7,1228 |
| 335 | ——— 7.8 | 4 | 30 29,26 | 2,341 | ,4708 | ,8571 | ,3694 | —8,1830 |
| 336 | Eridani 8 | 2 | 30 58,30 | 2,882 | +8,4064 | +8,7953 | +0,4597 | —7,5786 |
| 337 | ——— 7 | 4 | 31 14,99 | 2,796 | ,4106 | ,8009 | ,4465 | —7,7437 |
| 338 | ——— 8.9 | 4 | 31 26,47 | 2,303 | ,4697 | ,8611 | ,3623 | —8,1906 |
| 339 | $\tau'$ Tauri 8.9 | 4 | 32 22,26 | 3,585 | ,4295 | ,8263 | ,5545 | +8,0147 |
| 340 | Eridani 6.8 | 4 | 35 27,19 | 2,527 | ,4177 | ,8313 | ,4026 | —8,0182 |
| 341 | $2^d55$ Eridani 7.8 | 4 | 35 43,32 | 2,869 | +8,3841 | +8,7995 | +0,4577 | —7,5832 |
| 342 | ——— 9 | 4 | 35 54,90 | 2,993 | ,3784 | ,7949 | ,4761 | —7,1599 |
| 343 | Tauri 8 | 4 | 36 31,58 | 3,485 | ,3976 | ,8176 | ,5422 | +7,8991 |
| 344 | Eridani 8 | 3 | 37 56,16 | 2,396 | ,4230 | ,8506 | ,3795 | —8,0981 |
| 345 | ——— 7 | 4 | 38 1,39 | 2,573 | ,3988 | ,8272 | ,4104 | —7,9645 |
| 346 | Camelop. 8 | 4 | 38 10,12 | 5,901 | +8,7588 | +9,1891 | +0,7709 | +8,7200 |
| 347 | Tauri 8 | 4 | 40 8,98 | 3,419 | ,3726 | 8,8135 | ,5339 | +7,8026 |
| 348 | Camelop. 7.8 | 3 | 40 56,02 | 6,109 | ,7684 | 9,2153 | ,7860 | +8,7341 |
| 349 | Orionis 8 | 4 | 41 28,84 | 3,215 | ,3521 | 8,8010 | ,5072 | +7,4169 |
| 350 | Cel. Sculp. 8.9 | 4 | 43 12,04 | 2,173 | ,4288 | 8,8877 | ,3371 | —8,1913 |
| 351 | Eridani 8 | 4 | 43 37,98 | 2,943 | +8,3398 | +8,8016 | +0,4688 | —7,3330 |
| 352 | Cel. Sculp. 8 | 4 | 43 56,10 | 2,172 | ,4248 | 8,8882 | ,3367 | —8,1873 |
| 353 | Camelop. 7.8 | 4 | 45 55,11 | 7,447 | ,8788 | 9,3568 | ,8720 | +8,8613 |
| 354 | Orionis 7.8 | 4 | 46 16,41 | 2,991 | ,3225 | 8,8020 | ,4758 | —7,1092 |
| 355 | Camelop. 9 | 4 | 46 25,98 | 5,830 | ,7003 | 9,1809 | ,7657 | +8,6588 |
| 356 | Eridani 9 | 3 | 48 1,20 | 2,944 | 8,3148 | +8,8043 | +0,4689 | —7,3029 |
| 357 | Orionis 8 | 4 | 48 24,14 | 3,135 | ,3110 | 8,8031 | ,4962 | +7,3460 |
| 358 | Camelop. 8.9 | 4 | 48 46,78 | 5,289 | ,6107 | 9,1063 | ,7234 | +8,5490 |
| 359 | Orionis 8.9 | 3 | 49 36,17 | 3,099 | ,3034 | 8,8033 | ,4912 | +6,6965 |
| 360 | Tauri 9 | 4 | 49 39,35 | 3,393 | ,3165 | 8,8169 | ,5306 | +7,7092 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 316 | 4 | — 7 15 32,02 | +9,651 | +9,7332 | —8,7836 | +0,9846 | —9,9427 | 15 | +,024 | +0,06 |
| 317 | 4 | +10 36 13,10 | 9,625 | +9,4232 | +8,9468 | ,9834 | ,9431 | 16 | +,010 | — ,10 |
| 318 | 4 | + 5 47 10,52 | 9,492 | +9,5353 | +8,6799 | ,9774 | ,9448 | 24 | —,001 | — ,29 |
| 319 | 5 | + 6 44 51,33 | 9,430 | +9,5145 | +8,7440 | ,9748 | ,9456 | 28 | +,009 | — ,07 |
| 320 | 3 | +50 27 31,31 | 9,068 | —9,6149 | +9,5428 | ,9575 | ,9503 | 44 | +,018 | + ,17 |
| 321 | 4 | — 0 19 25,37 | 9,048 | +9,6425 | —7,3973 | +0,9568 | —9,9505 | 52 | +,014 | — ,02 |
| 322 | 2 | —44 40 3,36 | 8,928 | +9,9722 | —9,4956 | ,9507 | ,9520 | 65 | +,022 | — ,38 |
| 323 | 4 | +21 5 32,03 | 8,723 | +8,9085 | +9,1953 | ,9407 | ,9544 | 76 | +,018 | + ,04 |
| 324 | 4 | +80 12 4,43 | 8,608 | —9,9117 | +9,6265 | ,9349 | ,9557 | 59 | +,022 | — ,08 |
| 325 | 4 | +21 14 56,21 | 8,587 | +8,8808 | +9,1914 | ,9338 | ,9560 | 82 | +,019 | + ,09 |
| 326 | 3 | +15 55 46,11 | 8,534 | +9,2253 | +9,0682 | +0,9311 | —9,9566 | 86 | +,009 | + ,07 |
| 327 | 4 | +80 19 15,02 | 8,375 | —9,9154 | +9,6148 | ,9230 | ,9583 | 77 | +,032 | — ,11 |
| 328 | | +14 19 | 8,301 | +9,2878 | +9,0113 | ,9191 | ,9591 | 106 | +,010 | |
| 329 | 4 | +42 43 57,80 | 8,248 | —9,4757 | +9,4461 | ,9163 | ,9597 | 107 | —,008 | — ,03 |
| 330 | 4 | +19 37 28,03 | 7,965 | +9,0043 | +9,1256 | ,9012 | ,9627 | 119 | +,011 | — ,07 |
| 331 | 3 | + 9 49 34,73 | 7,928 | +9,4330 | +8,8311 | +0,8999 | —9,9630 | 127 | +,006 | — ,16 |
| 332 | 4 | — 8 38 6,83 | 7,858 | 9,7536 | —8,7698 | ,8953 | ,9638 | 131 | +,001 | + ,02 |
| 333 | 3 | — 8 45 47,06 | 7,713 | 9,7551 | —8,7683 | ,8872 | ,9652 | 141 | +,005 | + ,18 |
| 334 | 4 | — 2 58 49,90 | 7,697 | 9,6821 | —8,2983 | ,8863 | ,9653 | 142 | +,006 | + ,07 |
| 335 | 4 | —31 3 11,00 | 7,616 | 9,9289 | —9,2920 | ,8817 | ,9661 | 151 | —,010 | — ,04 |
| 336 | | — 8 33 | 7,579 | +9,7536 | —8,7498 | +0,8796 | —9,9665 | 152 | —,004 | |
| 337 | 2 | —12 27 10,10 | 7,557 | 9,7945 | —8,9094 | ,8783 | ,9667 | 154 | +,012 | + ,02 |
| 338 | 3 | —31 44 31,85 | 7,541 | 9,9325 | —9,2964 | ,8774 | ,9669 | 156 | +,008 | + ,04 |
| 339 | 2 | +22 37 15,56 | 7,460 | 8,6335 | +9,1560 | ,8727 | ,9676 | 158 | —,001 | — ,08 |
| 340 | 4 | —23 29 33,58 | 7,215 | 9,8865 | —9,1567 | ,8583 | ,9699 | 171 | +,014 | + ,06 |
| 341 | 3 | — 9 6 29,35 | 7,188 | +9,7604 | —8,7537 | +0,8566 | —9,9701 | 173 | —,010 | + ,04 |
| 342 | 2 | — 3 28 41,50 | 7,172 | 9,6893 | —8,3352 | ,8556 | ,9702 | 174 | +,023 | + ,03 |
| 343 | 4 | +18 29 37,46 | 7,123 | 9,0607 | +9,0522 | ,8527 | ,9707 | 177 | +,002 | — ,01 |
| 344 | 4 | —28 15 22,07 | 7,014 | 9,9164 | —9,2191 | ,8460 | ,9716 | 188 | +,014 | + ,08 |
| 345 | 4 | —21 35 19,32 | 7,003 | 9,8745 | —9,1090 | ,8453 | ,9717 | 186 | +,016 | + ,03 |
| 346 | 3 | +66 9 1,11 | 6,976 | —9,8338 | +9,5028 | +0,8436 | —9,9720 | 180 | —,037 | ,00 |
| 347 | 3 | +15 35 45,34 | 6,828 | +9,2175 | +8,9624 | ,8343 | ,9732 | 194 | +,026 | — ,01 |
| 348 | 4 | +67 30 1,61 | 6,746 | —9,8476 | +9,4927 | ,8290 | ,9739 | 193 | —,009 | + ,06 |
| 349 | 4 | + 6 39 36,84 | 6,718 | +9,5079 | +8,5901 | ,8272 | ,9741 | 205 | +,012 | + ,09 |
| 350 | 3 | —35 22 46,52 | 6,580 | +9,9542 | —9,2788 | ,8183 | ,9752 | 220 | +,019 | + ,03 |
| 351 | 3 | — 5 39 32,89 | 6,542 | +9,7202 | —8,5070 | +0,8157 | —9,9755 | 219 | +,023 | — ,01 |
| 352 | 2 | —35 23 12,90 | 6,520 | +9,9547 | —9,2748 | ,8142 | ,9757 | 223 | +,030 | + ,01 |
| 353 | 2 | +73 50 27,53 | 6,324 | —9,8976 | +9,4817 | ,8010 | ,9772 | 218 | —,030 | — ,03 |
| 354 | 4 | — 3 29 52,83 | 6,321 | +9,6911 | —8,2845 | ,8008 | ,9772 | 238 | +,017 | + ,08 |
| 355 | 4 | +65 18 38,30 | 6,293 | —9,8338 | +9,4554 | ,7989 | ,9775 | 225 | —,006 | — ,06 |
| 356 | 4 | — 5 35 23,97 | 6,177 | +9,7202 | —8,4769 | +0,7908 | —9,9783 | 248 | +,012 | — ,08 |
| 357 | 2 | + 3 1 16,02 | 6,144 | +9,5821 | +8,2101 | ,7884 | ,9786 | 249 | +,020 | + ,03 |
| 358 | 4 | +60 10 15,31 | 6,100 | —9,7853 | +9,4216 | ,7853 | ,9789 | 242 | —,013 | — ,20 |
| 359 | 4 | + 1 24 58,22 | 6,044 | +9,6128 | +7,8724 | ,7813 | ,9793 | 258 | +,015 | + ,04 |
| 360 | 1 | +14 17 29,19 | 6,038 | +9,2672 | +8,8716 | ,7809 | ,9793 | 255 | +,014 | — ,06 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h. m. s.* | *s.* | | | | |
| 361 | Orionis 8.9 | 3 | 4 50 59,82 | +3,296 | +8,3016 | +8,8109 | +0,5180 | +7,5477 |
| 362 | ——— 7 | 3 | 51 19,89 | 3,280 | ,2987 | ,8102 | ,5159 | +7,5140 |
| 363 | Eridani 8.9 | 3 | 51 28,95 | 2,652 | ,3138 | ,8262 | ,4236 | —7,8050 |
| 364 | Orionis 8 | 4 | 53 28,81 | 3,086 | ,2794 | ,8055 | ,4894 | +6,4333 |
| 365 | ——— 8.9 | 2 | 53 31,67 | 3,099 | ,2791 | ,8056 | ,4912 | +6,6618 |
| 366 | 2 Leporis 5 | 3 | 54 18,92 | 2,594 | +8,3020 | +8,8337 | +0,4140 | —7,8420 |
| 367 | Orionis 9 | 4 | 57 59,08 | 3,208 | ,2520 | ,8105 | ,5062 | +7,2854 |
| 368 | ——— 8.9 | 4 | 58 50,73 | 2,947 | ,2458 | ,8103 | ,4694 | —7,2181 |
| 369 | Aurigæ 8.9 | 3 | 59 31,40 | 4,439 | ,4024 | ,9728 | ,6473 | +8,2646 |
| 370 | Orionis 8.9 | 4 | 5 2 1,12 | 2,976 | ,2221 | ,8110 | ,4736 | —7,0729 |
| 371 | Orionis 7.8 | 4 | 2 54,87 | 2,796 | +8,2240 | +8,8197 | +0,4465 | —7,5365 |
| 372 | Camelop. 7 | 3 | 3 11,95 | 9,237 | ,8960 | 9,4976 | ,9655 | +8,8866 |
| 373 | ——— 8 | 4 | 4 17,46 | 9,079 | ,8766 | 9,4868 | ,9580 | +8,8667 |
| 374 | Orionis 9 | 4 | 5 5,23 | 2,880 | ,2024 | 8,8159 | ,4594 | —7,3592 |
| 375 | ——— 7.8 | 4 | 5 40,56 | 2,878 | ,1978 | 8,8163 | ,4591 | —7,3589 |
| 376 | Tauri 7 | 4 | 7 9,19 | 3,497 | +8,2038 | +8,8347 | +0,5437 | +7,6996 |
| 377 | Orionis 7 | 4 | 7 11,49 | 2,909 | ,1841 | ,8156 | ,4637 | —7,2690 |
| 378 | Tauri 7,8 | 2 | 7 49,26 | 3,541 | ,2024 | ,8396 | ,5491 | +7,7357 |
| 379 | Cel. Sculp. 7.8 | 2 | 7 57,46 | 2,122 | ,2669 | ,9047 | ,3267 | —8,0362 |
| 380 | Columbæ 7.8 | 3 | 8 2,83 | 2,400 | ,2250 | ,8634 | ,3802 | —7,8843 |
| 381 | Aurigæ 8 | 3 | 8 35,02 | 3,941 | +8,2493 | +8,8935 | +0,5956 | +7,9948 |
| 382 | Orionis 9 | 4 | 8 59,63 | 2,905 | ,1694 | ,8165 | ,4631 | —7,2624 |
| 383 | ——— 9 | 4 | 9 37,71 | 3,379 | ,1724 | ,8254 | ,5288 | +7,5374 |
| 384 | ——— 9 | 4 | 10 48,52 | 3,378 | ,1620 | ,8259 | ,5287 | +7,5259 |
| 385 | ——— 7.8 | 4 | 11 15,90 | 3,122 | ,1469 | ,8145 | ,4944 | +6,7597 |
| 386 | Aurigæ 8.9 | 4 | 12 41,26 | 3,772 | +8,1887 | +8,8700 | +0,5766 | +7,8645 |
| 387 | ——— 8 | 4 | 12 50,07 | 5,107 | ,3986 | 9,0824 | ,7082 | +8,3237 |
| 388 | Orionis 7.8 | 4 | 14 37,91 | 3,094 | ,1161 | 8,8155 | ,4905 | +6,4123 |
| 389 | ——— 8.9 | 4 | 15 55,77 | 3,145 | ,1040 | 8,8166 | ,4976 | +6,8728 |
| 390 | ——— 8 | 3 | 16 26,63 | 3,007 | ,0991 | 8,8165 | ,4781 | —6,7640 |
| 391 | Orionis 8.9 | 4 | 16 35,66 | 3,092 | +8,0967 | +8,8162 | +0,4902 | +6,3528 |
| 392 | ——— 7.8 | 3 | 16 40,74 | 3,109 | ,0955 | ,8165 | ,4926 | +6,5886 |
| 393 | Tauri 9 | 4 | 18 4,45 | 3,442 | ,0981 | ,8336 | ,5368 | +7,5357 |
| 394 | Leporis 7.8 | 4 | 18 6,30 | 2,758 | ,0929 | ,8284 | ,4406 | —7,4536 |
| 395 | ——— 8 | 4 | 18 30,61 | 2,763 | ,0883 | ,8282 | ,4414 | —7,4421 |
| 396 | Tauri 8.9 | 4 | 19 13,44 | 3,555 | +8,0972 | +8,8450 | +0,5508 | +7,6378 |
| 397 | Orionis 9 | 5 | 19 50,96 | 2,873 | ,0676 | ,8220 | ,4583 | —7,2348 |
| 398 | Tauri 9 | 4 | 20 21,96 | 3,611 | ,0911 | ,8515 | ,5576 | +7,6722 |
| 399 | Orionis 8 | 4 | 20 51,14 | 2,871 | ,0575 | ,8224 | ,4580 | —7,2280 |
| 400 | ——— 9 | 4 | 21 14,54 | 3,038 | ,0476 | ,8178 | ,4826 | —6,4089 |
| 401 | Orionis 7.8 | 3 | 21 20,51 | 3,047 | +8,0468 | +8,8178 | +0,4839 | —6,2509 |
| 402 | Tauri 8.9 | 4 | 22 13,81 | 3,735 | ,0857 | 8,8676 | ,5723 | +7,7405 |
| 403 | Orionis 8 | 4 | 22 28,97 | 3,142 | ,0346 | 8,8188 | ,4972 | +6,7836 |
| 404 | Camelop. 6.7 | 3 | 23 8,17 | 4,974 | ,2595 | 9,0532 | ,6967 | +8,1845 |
| 405 | Tauri 7.8 | 4 | 24 44,30 | 3,737 | ,0557 | 8,8684 | ,5725 | +7,7108 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 361 | 4. | +10 8 10,37 | +5,927 | +9,4133 | +8,7169 | +0,7728 | —9,9801 | 265 | —,022 | — ,22 |
| 362 | 2 | + 9 26 48,70 | 5,899 | 9,4330 | +8,6842 | ,7708 | ,9803 | 267 | +,018 | — ,12 |
| 363 | 4 | —18 3 44,48 | 5,888 | 9,8506 | —8,9591 | ,7700 | ,9804 | 268 | +,011 | + ,05 |
| 364 | 4 | + 0 48 9,45 | 5,721 | 9,6232 | +7,6094 | ,7574 | ,9815 | 277 | +,021 | + ,09 |
| 365 | 4 | + 1 21 51,71 | 5,715 | 9,6138 | +7,8378 | ,7570 | ,9816 | 279 | —,001 | — ,20 |
| 366 | 4 | —20 17 46,51 | 5,653 | +9,8692 | —8,9902 | +0,7523 | —9,9820 | 285 | +,012 | — ,04 |
| 367 | 4 | + 6 11 43,28 | 5,340 | +9,5145 | +8,4589 | ,7275 | ,9840 | 299 | +,034 | — ,01 |
| 368 | 4 | — 5 23 26,16 | 5,272 | +9,7177 | —8,3923 | ,7220 | ,9844 | 306 | +,023 | — ,16 |
| 369 | 4 | +46 43 41,36 | 5,200 | —9,6085 | +9,2766 | ,7164 | ,9848 | 301 | +,013 | + ,17 |
| 370 | 3 | — 4 3 52,09 | 5,001 | +9,7007 | —8,2479 | ,6991 | ,9860 | 2 | +,007 | ,00 |
| 371 | 4 | —11 51 30,74 | 4,928 | +9,7952 | —8,7032 | +0,6927 | —9,9865 | 4 | +,025 | — ,01 |
| 372 | 4 | +78 7 49,21 | 4,866 | —9,9345 | +9,3758 | ,6872 | ,9868 | 311 | +,019 | + ,05 |
| 373 | 4 | +77 48 24,75 | 4,776 | —9,9330 | +9,3671 | ,6790 | ,9873 | 317 | +,010 | — ,02 |
| 374 | 4 | — 8 15 54,98 | 4,741 | +9,7543 | —8,5308 | ,6759 | ,9875 | 12 | +,030 | + ,03 |
| 375 | 4 | — 8 20 46,09 | 4,690 | +9,7559 | —8,5304 | ,6712 | ,9878 | 15 | +,012 | + ,04 |
| 376 | 4 | +18 15 0,00 | 4,565 | +9,0294 | +8,8533 | +0,6595 | —9,9884 | 20 | +,017 | + ,10 |
| 377 | 4 | — 6 59 51,23 | 4,560 | 9,7396 | —9,4418 | ,6589 | ,9885 | 24 | +,002 | + ,08 |
| 378 | 4 | +19 56 53,04 | 4,503 | 8,8751 | +8,8849 | ,6535 | ,9887 | 25 | +,006 | — ,14 |
| 379 | 4 | —36 1 3,76 | 4,497 | 9,9657 | —9,1202 | ,6530 | ,9888 | 30 | +,006 | — ,04 |
| 380 | 4 | —27 9 21,86 | 4,492 | 9,9196 | —9,0097 | ,6524 | ,9888 | 29 | +,007 | + ,10 |
| 381 | 2 | +33 48 14,12 | 4,435 | —9,2601 | +9,0904 | +0,6469 | —9,9891 | 27 | +,002 | — ,01 |
| 322 | 4 | — 7 7 21,38 | 4,406 | +9,7419 | —8,4352 | ,6441 | ,9892 | 33 | +,007 | — ,08 |
| 383 | 5 | +13 23 13,12 | 4,350 | +9,2923 | +8,7015 | ,6384 | ,9895 | 38 | —,007 | — ,02 |
| 384 | 6 | +13 22 23,49 | 4,247 | +9,2923 | +8,6901 | ,6281 | ,9900 | 46 | +,008 | — ,08 |
| 385 | 3 | + 2 20 33,34 | 4,213 | +9,5955 | +7,9354 | ,6246 | ,9902 | 49 | +,015 | — ,07 |
| 386 | 3 | +28 18 14,44 | 4,087 | —8,9138 | +8,9853 | +0,6114 | —9,9908 | 53 | +,015 | + ,04 |
| 387 | 3 | +57 18 42,32 | 4,065 | —9,7708 | +9,2322 | ,6090 | ,9909 | 50 | +,006 | + ,06 |
| 388 | 4 | + 1 7 39,25 | 3,928 | +9,6180 | +7,5883 | ,5941 | ,9915 | 67 | +,018 | + ,07 |
| 389 | 4 | + 3 21 38,10 | 3,813 | +9,5740 | +8,0481 | ,5813 | ,9920 | 73 | +,007 | + ,08 |
| 390 | 4 | — 2 39 14,63 | 3,773 | +9,6794 | —7,9397 | ,5767 | ,9922 | 82 | —,050 | ,00 |
| 391 | 4 | + 1 1 50,81 | 3,756 | +9,6191 | +7,5288 | +0,5747 | —9,9922 | 83 | +,013 | ,00 |
| 392 | 4 | + 1 46 8,55 | 3,744 | 9,6053 | +7,7644 | ,5734 | ,9923 | 84 | —,001 | — ,03 |
| 393 | 4 | +15 53 35,53 | 3,624 | 9,1703 | +8,6949 | ,5592 | ,9928 | 89 | +,012 | + ,01 |
| 394 | 3 | —13 16 48,16 | 3,624 | 9,8116 | —8,6180 | ,5592 | ,9928 | 93 | +,009 | — ,06 |
| 395 | 3 | —13 3 13,86 | 3,590 | 9,8096 | —8,6068 | ,5550 | ,9929 | 96 | +,007 | + ,28 |
| 396 | 4 | +20 17 59,52 | 3,526 | +8,8129 | +8,7859 | +0,5473 | —9,9932 | 100 | +,012 | — ,17 |
| 397 | 4 | — 8 28 12,90 | 3,475 | 9,7589 | —8,4061 | ,5409 | ,9934 | 104 | +,006 | + ,06 |
| 398 | 4 | +22 24 14,29 | 3,429 | 8,4150 | +8,8142 | ,5351 | ,9935 | 105 | +,006 | + ,06 |
| 399 | 3 | — 8 30 57,11 | 3,394 | 9,7597 | —8,3993 | ,5307 | ,9937 | 109 | +,018 | + ,09 |
| 400 | 4 | — 1 19 29,84 | 3,354 | 9,6599 | —7,5849 | ,5256 | ,9938 | 110 | +,020 | — ,17 |
| 401 | 4 | — 0 56 13,40 | 3,348 | +9,6532 | —7,4269 | +0,5248 | —9,9938 | 111 | +,010 | — ,07 |
| 402 | 4 | +26 51 13,49 | 3,268 | —8,7634 | +8,8671 | ,5143 | ,9938 | 115 | +,011 | + ,08 |
| 403 | 4 | + 3 13 16,87 | 3,251 | +9,5775 | +7,9590 | ,5120 | ,9942 | 121 | +,004 | — ,05 |
| 404 | 3 | +54 18 31,16 | 3,181 | —9,7551 | +9,1157 | ,5026 | ,9945 | 117 | —,035 | — ,05 |
| 405 | 4 | +26 51 27,37 | 3,049 | —8,7781 | +8,8372 | ,4842 | ,9949 | 131 | +,013 | ,00 |

| No. | Star's name and Mag. | | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | *a* | *b* | *c* | *d* |
| | | | | *h.* *m.* *s.* | *s.* | | | | |
| 406 | Camelop. | 8.9 | 3 | 5 27 32,46 | +5,507 | +8,2899 | +9,1411 | +0,7409 | +8,2339 |
| 407 | ——— | 7 | 4 | 28 2,71 | 4,851 | 8,1868 | 9,0445 | ,6858 | +8,0915 |
| 408 | Aurigæ | 8 | 4 | 30 13,41 | 3,922 | 8,0083 | 8,8957 | ,5935 | +7,7420 |
| 409 | Orionis | 8.9 | 4 | 30 20,76 | 3,162 | 7,9329 | 8,8214 | ,5000 | +6,7819 |
| 410 | ——— | 9 | 2 | 30 31,88 | 3,006 | 7,9294 | 8,8209 | ,4780 | —6,5998 |
| 411 | Orionis | 7 | 3 | 30 33,41 | 3,006 | +7,9294 | +8,8209 | +0,4780 | —6,5998 |
| 412 | ——— | 7 | 5 | 30 58,54 | 2,945 | ,9248 | ,8223 | ,4691 | —6,8890 |
| 413 | Columbæ | 7 | 2 | 31 14,65 | 2,342 | ,9760 | ,8775 | ,3696 | —7,6576 |
| 414 | ——— | 8 | 2 | 32 10,02 | 2,335 | ,9625 | ,8786 | ,3683 | —7,6472 |
| 415 | Orionis | 8 | 3 | 32 46,42 | 3,515 | ,9174 | ,8442 | ,5459 | +7,4215 |
| 416 | Orionis | 9 | 4 | 32 50,04 | 3,523 | +7,9171 | +8,8450 | +0,5469 | +7,4279 |
| 417 | Columbæ | 9 | 2 | 32 56,14 | 2,308 | 7,9547 | 8,8826 | ,3632 | —7,6512 |
| 418 | Orionis | 8.9 | 3 | 34 38,80 | 3,519 | 7,8868 | 8,8450 | ,5464 | +7,3939 |
| 419 | Camelop. | 9 | 4 | 35 38,68 | 4,895 | 8,0736 | 9,0519 | ,6897 | +7,9813 |
| 420 | Orionis | 9 | 3 | 38 7,66 | 3,440 | 7,8139 | 8,8384 | ,5366 | +7,2449 |
| 421 | Aurigæ | 8 | 3 | 39 16,22 | 3,891 | +7,8445 | +8,8925 | +0,5901 | +7,5656 |
| 422 | Tauri | 8.9 | 3 | 40 7,98 | 3,397 | ,7698 | ,8352 | ,5311 | 7,1494 |
| 423 | Orionis | 8 | 4 | 42 11,01 | 3,539 | ,7344 | ,8482 | ,5489 | 7,2576 |
| 424 | ——— | 7 | 3 | 43 39,67 | 3,212 | ,6736 | ,8253 | ,5068 | 6,7047 |
| 425 | ——— | 9 | 4 | 44 22,79 | 3,397 | ,6638 | ,8358 | ,5311 | 7,0434 |
| 426 | Leporis | 9 | 4 | 44 36,76 | 2,560 | +7,6747 | +8,8524 | +0,4082 | —7,2264 |
| 427 | Orionis | 7 | 3 | 44 38,87 | 3,214 | ,6459 | ,8255 | ,5070 | +6,6817 |
| 428 | Columbæ | 8.9 | 5 | 46 11,50 | 2,101 | ,6908 | ,9148 | ,3224 | —7,4593 |
| 429 | Aurigæ | 8 | 2 | 48 47,46 | 3,764 | ,5545 | ,8756 | ,5756 | +7,2194 |
| 430 | Orionis | 7.8 | 4 | 49 42,81 | 3,110 | ,4667 | ,8237 | ,4928 | +5,9717 |
| 431 | Orionis | 9 | 4 | 50 11,41 | 3,345 | +7,4550 | +8,8327 | +0,5244 | +6,7633 |
| 432 | ——— | 8 | 4 | 53 23,72 | 3,493 | ,2908 | ,8447 | ,5432 | 6,7730 |
| 433 | Geminor. | 8 | 4 | 53 42,58 | 3,765 | ,2942 | ,8761 | ,5758 | 6,9595 |
| 434 | Orionis | 8 | 4 | 53 42,59 | 3,249 | ,2506 | ,8277 | ,5117 | 6,3776 |
| 435 | ——— | 8.9 | 4 | 55 45,96 | 3,437 | ,0817 | ,8398 | ,5362 | 6,5073 |
| 436 | Geminor. | 8 | 2 | 56 10,88 | 3,735 | +7,0683 | +8,8722 | +0,5723 | +6,7184 |
| 437 | Orionis | 6.7 | 4 | 56 13,56 | 3,195 | 7,0138 | 8,8258 | ,5045 | 5,9901 |
| 438 | Aurigæ | 7.8 | 4 | 56 15,87 | 4,116 | 7,1077 | 8,9279 | ,6145 | 6,8980 |
| 439 | Orionis | 8.9 | 3 | 56 48,48 | 3,364 | 6,9415 | 8,8343 | ,5269 | 6,2768 |
| 440 | Camelop. | 7 | 3 | 58 54,13 | 6,644 | 6,7436 | 9,2799 | ,8224 | 6,7153 |
| 441 | 1.41 Aurigæ | 7 | 4 | 59 3,11 | 4,592 | +6,4685 | +9,0048 | +0,6620 | +6,3446 |
| 442 | Leporis | | | 6 0 | 2,499 | —5,8010 | 8,8601 | ,3978 | +5,3944 |
| 443 | Camelop. | 8 | 4 | 1 32,39 | 5,314 | 7,0261 | 9,1152 | ,7254 | —6,9603 |
| 444 | Columbæ | 8 | 4 | 1 38,79 | 2,061 | 6,8167 | 8,9216 | ,3141 | +6,5964 |
| 445 | Aurigæ | 8 | 3 | 2 44,73 | 4,472 | 7,1120 | 8,9855 | ,6505 | —6,9721 |
| 446 | Geminor. | 9 | 4 | 4 7,81 | 3,663 | —7,1399 | +8,8632 | +0,5638 | —6,7498 |
| 447 | ——— | 8 | | 4 | 3,663 | 7,1464 | 8,8631 | ,5638 | —6,7557 |
| 448 | Lyncis | 8 | 3 | 4 26,09 | 5,345 | 7,4410 | 9,1198 | ,7279 | —7,3768 |
| 449 | Orionis | 7 | 3 | 5 16,28 | 3,453 | 7,2240 | 8,8411 | ,5382 | —6,6665 |
| 450 | Monocer. | 8 | 2 | 7 46,64 | 2,924 | 7,3692 | 8,8262 | ,4660 | +6,4003 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 406 | 4 | +61 30 20,19 | +2,795 | —9,8215 | +9,0884 | +0,4464 | —9,9957 | 143 | —,023 | +0,11 |
| 407 | 4 | +53 24 14,80 | 2,755 | —9,7292 | +9,0428 | ,4401 | ,9959 | 146 | +,011 | — ,51 |
| 408 | 3 | +32 47 54,55 | 2,576 | —9,2355 | +8,8307 | ,4109 | ,9964 | 168 | +,016 | — ,08 |
| 409 | 4 | + 4 2 17,88 | 2,570 | +9,5599 | +7,9569 | ,4099 | ,9964 | 170 | +,017 | — ,08 |
| 410 | 2 | — 2 42 0,19 | 2,553 | +9,6803 | —7,7754 | ,4070 | ,9964 | 173 | +,005 | + ,04 |
| 411 | 4 | — 2 41 40,42 | 2,553 | +9,6803 | —7,7754 | +0,4070 | —9,9964 | 174 | —,001 | + ,07 |
| 412 | 2 | — 5 17 40,06 | 2,518 | 9,7185 | —8,0632 | ,4010 | ,9965 | 175 | +,010 | — ,05 |
| 413 | 4 | —28 43 35,82 | 2,495 | 9,9335 | —8,7767 | ,3970 | ,9966 | 181 | +,008 | + ,08 |
| 414 | 4 | —28 56 7,35 | 2,414 | 9,9345 | —8,7654 | ,3827 | ,9968 | 190 | —,007 | + ,07 |
| 415 | 3 | +18 36 2,04 | 2,356 | 8,9731 | +8,5743 | ,3721 | ,9970 | 187 | —,003 | + ,08 |
| 416 | 2 | +18 53 59,16 | 2,350 | +8,9494 | +8,5799 | +0,3711 | —9,9970 | 189 | +,013 | — ,15 |
| 417 | 4 | —29 48 38,62 | 2,350 | +9,9400 | —8,7657 | ,3711 | ,9970 | 193 | +,026 | — ,28 |
| 418 | 4 | +18 45 11,58 | 2,194 | +8,9638 | +8,5463 | ,3412 | ,9974 | 198 | +,013 | + ,03 |
| 419 | 2 | +53 57 43,76 | 2,094 | —9,7396 | +8,9270 | ,3212 | ,9976 | 199 | +,012 | + ,04 |
| 420 | 4 | +15 39 11,26 | 1,886 | +9,1732 | +8,4046 | ,2756 | ,9981 | 218 | +,010 | — ,07 |
| 421 | 4 | +31 43 33,14 | 1,788 | —9,1903 | +8,6712 | +0,2523 | —9,9983 | 225 | +,003 | + ,05 |
| 422 | 4 | +13 51 43,21 | 1,717 | +9,2601 | 8,3126 | ,2350 | ,9984 | 232 | +,019 | — ,03 |
| 423 | 4 | +19 28 11,32 | 1,538 | +8,8808 | 8,4080 | ,1869 | ,9987 | 245 | +,009 | — ,01 |
| 424 | 4 | + 6 9 49,69 | 1,410 | +9,5105 | 7,8783 | ,1491 | ,9989 | 255 | +,025 | + ,06 |
| 425 | 4 | +13 50 52,22 | 1,346 | +9,2601 | 8,2066 | ,1290 | ,9990 | 258 | +,011 | ,00 |
| 426 | 2 | —20 53 10,16 | 1,328 | +9,8808 | —8,3730 | +0,1233 | —9,9990 | 263 | +,019 | — ,27 |
| 427 | 4 | + 6 12 44,78 | 1,323 | +9,5092 | +7,8552 | ,1214 | ,9990 | 260 | +,010 | — ,04 |
| 428 | 3 | —35 57 11,72 | 1,195 | +9,9717 | —8,5437 | ,0772 | ,9992 | 270 | +,010 | — ,11 |
| 429 | 4 | +27 32 18,61 | 0,955 | —8,8865 | +8,3433 | 9,9804 | ,9995 | 279 | +,004 | + ,04 |
| 430 | 4 | + 1 49 59,26 | 0,880 | +9,6042 | +7,1476 | ,9445 | ,9996 | 282 | +,024 | + ,01 |
| 431 | 4 | +11 44 33,16 | 0,838 | +9,3463 | +7,9302 | +9,9239 | —9,9996 | 284 | +,009 | + ,07 |
| 432 | 4 | +17 39 32,32 | 0,559 | +9,0414 | 7,9281 | ,7479 | ,9998 | 300 | +,015 | + ,07 |
| 433 | 2 | +27 34 6,12 | 0,530 | —8,8921 | 8,0833 | ,7247 | ,9998 | 303 | +,012 | + ,09 |
| 434 | 4 | + 7 41 29,39 | 0,530 | +9,4713 | 7,5498 | ,7247 | ,9998 | 305 | +,015 | — ,11 |
| 435 | 4 | +15 27 3,97 | 0,350 | +9,1818 | 7,6674 | ,5438 | ,9999 | 317 | +,001 | — ,04 |
| 436 | 4 | +26 31 55,48 | 0,315 | —8,7708 | +7,8461 | +9,4981 | —9,9999 | 319 | +,013 | + ,08 |
| 437 | 4 | + 5 25 18,79 | 0,305 | +9,5276 | ,1643 | 9,4899 | 9,9999 | 321 | —,003 | — ,06 |
| 438 | 4 | +38 5 24,38 | 0,303 | —9,4409 | ,9700 | 9,4817 | 9,9999 | 318 | +,006 | — ,04 |
| 439 | 4 | +12 29 9,58 | 0,257 | +9,3181 | ,4425 | 9,4091 | 0,0000 | 324 | +,013 | + ,02 |
| 440 | 4 | +69 30 32,98 | 0,058 | —9,8949 | ,4354 | 8,7657 | 0,0000 | 326 | ,000 | — ,06 |
| 441 | 2 | +48 44 14,55 | +0,058 | —9,6684 | +7,3398 | +8,7657 | —0,0000 | 333 | +,026 | ,00 |
| 442 | | —23 4 | —0,017 | +9,8982 | +6,5342 | —8,2428 | 0,0000 | 345 | | |
| 443 | 4 | +59 15 2,26 | 0,163 | —9,8041 | —7,8451 | —9,2128 | 0,0000 | 343 | +,012 | — ,06 |
| 444 | 4 | —37 1 4,47 | 0,158 | +9,9768 | +7,6747 | —9,1970 | 0,0000 | 4 | +,006 | + ,09 |
| 445 | 4 | +46 25 55,93 | 0,268 | —9,6284 | —7,9865 | —9,4284 | 0,0000 | 1 | —,001 | + ,19 |
| 446 | 5 | +24 1 26,03 | 0,379 | —8,0414 | —7,8865 | —9,5786 | —9,9999 | 13 | +,022 | — ,06 |
| 447 | 4 | +23 59 28,10 | 0,383 | —8,0414 | —7,8925 | ,5852 | ,9999 | 14 | ,0 | — ,09 |
| 448 | 4 | +59 36 26,39 | 0,420 | —9,8082 | —8,2569 | ,6230 | ,9999 | 10 | +,008 | — ,12 |
| 449 | 4 | +16 4 33,38 | 0,483 | +9,1461 | —7,8253 | ,6847 | ,9999 | 24 | ,000 | + ,14 |
| 450 | 2 | — 6 9 40,27 | 0,699 | +9,7308 | + ,5739 | ,8448 | ,9997 | 44 | +,013 | — ,01 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h. m. s.* | *s.* | | | | |
| 451 | Monocer. 9 | 1 | 6 8 11,85 | +2,768 | +7,3986 | +8,8343 | +0,4422 | +6,7402 |
| 452 | ——— 9.10 | | 8 | 2,767 | ,4055 | 8,8344 | ,4420 | +6,7476 |
| 453 | ——— 9.10 | 3 | 8 23,67 | 2,925 | ,4006 | 8,8261 | ,4661 | +6,4294 |
| 454 | Aurigæ 8.9 | 4 | 8 24,31 | 4,813 | ,6212 | 9,0400 | ,6824 | —7,5211 |
| 455 | Canis. Maj. 6.7 | 3 | 10 9,61 | 2,511 | ,5127 | 8,8583 | ,3998 | +7,0982 |
| 456 | Lyncis 8.9 | 3 | 10 10,12 | 5,771 | -7,8399 | +9,1772 | +0,7612 | —7,7925 |
| 457 | Monocer. 7.8 | 4 | 10 29,70 | 3,360 | ,5018 | 8,8336 | ,5263 | —6,8319 |
| 458 | Canis. Maj. 8.9 | 4 | 12 7,21 | 2,748 | ,5644 | 8,8355 | ,4390 | +6,9326 |
| 459 | Lyncis 8 | 3 | 12 17,35 | 5,245 | ,8504 | 9,1051 | ,7197 | —7,7811 |
| 460 | Monocer. 9 | 4 | 13 45,41 | 3,023 | ,6078 | 8,8234 | ,4804 | +6,1396 |
| 461 | Monocer. 7.8 | 3 | 14 17,45 | 3,158 | —7,6248 | +8,8240 | +0,4994 | —6,4499 |
| 462 | ——— 9 | 3 | 15 5,14 | 3,176 | ,6505 | ,8244 | ,5019 | —6,5624 |
| 463 | Geminor. 8 | 3 | 16 23,59 | 3,404 | ,6969 | ,8362 | ,5320 | —7,0861 |
| 464 | Columbæ 9 | 4 | 16 33,44 | 2,177 | ,7672 | ,9031 | ,3379 | +7,5124 |
| 465 15 | Geminor. 9.10 | 3 | 17 59,24 | 3,576 | ,7528 | ,8520 | ,5534 | —7,3049 |
| 466 | Monocer. 9 | 4 | 18 14,39 | 3,312 | —7,7369 | +8,8297 | +0,5201 | —6,9941 |
| 467 | ——— 8 | 2 | 18 20,33 | 3,080 | 7,7312 | 8,8225 | ,4885 | —5,7001 |
| 468 | Canis. Maj. 8 | 2 | 18 25,15 | 2,079 | 7,8267 | 8,9180 | ,3178 | +7,6023 |
| 469 | Lyncis 9.10 | 4 | 19 56,48 | 5,311 | 8,0635 | 9,1144 | ,7252 | —7,9980 |
| 470 | Geminor. 9 | 4 | 20 55,85 | 3,566 | 7,8179 | 8,8505 | ,5522 | —7,3626 |
| 471 | Canis. Maj. 8 | 3 | 20 59,17 | 2,235 | —7,8600 | +8,8940 | +0,3493 | +7,5850 |
| 472 | Geminor. 8 | 2 | 22 5,45 | 3,448 | ,8290 | ,8389 | ,5376 | —7,2680 |
| 473 | Monocer. 9 | 4 | 22 7,47 | 3,303 | ,8187 | ,8286 | ,5189 | —7,0605 |
| 474 20 | Geminor. 8 | 2 | 22 43,45 | 3,497 | ,8462 | ,8432 | ,5437 | —7,3335 |
| 475 | Monocer. 7.8 | 4 | 24 54,98 | 3,239 | ,8667 | ,8249 | ,5104 | —6,9737 |
| 476 | Aurigæ 7.8 | 3 | 25 22,38 | 3,884 | —7,9408 | +8,8909 | +0,5893 | —7,6601 |
| 477 | Geminor. 8 | 3 | 25 27,21 | 3,471 | ,8913 | ,8403 | ,5404 | —7,3544 |
| 478 | ——— 7.8 | 4 | 26 23,71 | 3,462 | ,9060 | ,8394 | ,5393 | —7,3611 |
| 479 | ——— 7.8 | 4 | 28 16,22 | 3,674 | ,9582 | ,8618 | ,5651 | —7,5773 |
| 480 1.$\nu$ | Canis. Maj. *pr.* 9 | 3 | 29 11,15 | 2,624 | ,9530 | ,8435 | ,4190 | +7,4553 |
| 481 | Canis. Maj. 7.8 | 1 | 30 19,49 | 2,248 | —8,0167 | +8,8905 | +0,3518 | +7,7381 |
| 482 | ——— 8 | 4 | 30 52,13 | 2,238 | 8,0257 | 8,8919 | ,3499 | +7,7509 |
| 483 12 | Lyncis *pr.* 8 | 3 | 31 42,76 | 5,323 | 8,2642 | 9,1155 | ,7262 | —8,1999 |
| 484 | Canis. Maj. 8 | 3 | 31 50,84 | 2,637 | 7,9903 | 8,8416 | ,4211 | +7,4814 |
| 485 | Monocer. 8.9 | 4 | 32 35,02 | 3,167 | 7,9793 | 8,8207 | ,5006 | —6,8526 |
| 486 | Lyncis 9 | 4 | 36 28,56 | 4,831 | —8,2503 | +9,0408 | +0,6840 | —8,1537 |
| 487 | Monocer. 8 | 1 | 37 16,58 | 3,129 | ,0359 | 8,8185 | ,4954 | —6,7035 |
| 488 | Canis. Maj. 8.9 | 3 | 37 20,27 | 2,676 | ,0546 | 8,8365 | ,4275 | +7,5117 |
| 489 | Aurigæ 8 | 4 | 37 52,28 | 4,450 | ,2042 | 8,9790 | ,6484 | —8,0638 |
| 490 | Canis. Maj. 7.8 | 3 | 38 55,41 | 2,573 | ,0821 | 8,8463 | ,4104 | +7,6285 |
| 491 | Canis. Maj. 9 | 3 | 39 2,05 | 2,578 | —8,0831 | +8,8457 | +0,4113 | +7,6261 |
| 492 | ——— 8.9 | 4 | 39 5,03 | 2,574 | ,0843 | ,8461 | ,4106 | +7,6303 |
| 493 | ——— 8.9 | 2 | 40 5,09 | 2,565 | ,0954 | ,8468 | ,4091 | +7,6484 |
| 494 | ——— 8.9 | 1 | 41 22,90 | 2,735 | ,0932 | ,8302 | ,4370 | +7,4835 |
| 495 | Aurigæ 6.7 | 4 | 41 43,98 | 4,134 | ,1944 | ,9265 | ,6164 | —7,9939 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | s. | ″ |
| 451 | | —12 40 | —0,734 | +9,8082 | +7,9056 | —9,8660 | —9,9997 | 46 | +,016 | |
| 452 | 8 | —12 41 22,93 | 0,746 | +9,8082 | +7,9130 | ,8728 | ,9997 | 48 | | + ,02 |
| 453 | 1 | — 6 8 11,50 | 0,752 | +9,7308 | +7,6029 | ,8762 | ,9997 | 47 | +,010 | + ,05 |
| 454 | 4 | +52 34 51,48 | 0,764 | —9,7243 | —8,4808 | ,8829 | ,9997 | 39 | +,014 | — ,07 |
| 455 | 4 | —22 38 55,92 | 0,903 | +9,8949 | +8,2395 | ,9559 | ,9996 | 59 | +,027 | — ,19 |
| 456 | 3 | +63 42 44,18 | 0,921 | —9,8414 | —8,6148 | —9,9642 | —9,9995 | 50 | +,027 | — ,05 |
| 457 | 4 | +12 21 13,74 | 0,923 | +9,3222 | —7,9979 | 9,9697 | ,9995 | 58 | +,016 | + ,03 |
| 458 | 4 | —13 29 27,96 | 1,072 | +9,8162 | +8,0965 | 0,0303 | ,9994 | 72 | +,005 | + ,03 |
| 459 | 2 | +58 29 47,27 | 1,113 | —9,7952 | —8,6753 | ,0465 | ,9993 | 61 | +,013 | — ,02 |
| 460 | 4 | — 1 57 27,66 | 1,218 | +9,6702 | +7,3154 | ,0856 | ,9992 | 76 | +,026 | — ,08 |
| 461 | 2 | + 3 50 5,75 | 1,264 | +9,5635 | —7,6250 | —0,1019 | —9,9991 | 77 | +,010 | — ,07 |
| 462 | 3 | + 4 42 8,60 | 1,340 | 9,5453 | —7,7371 | ,1271 | ,9990 | 85 | —,004 | — ,30 |
| 463 | 1 | +14 10 35,19 | 1,450 | 9,2480 | —8,2488 | ,1615 | ,9989 | 94 | +,012 | — ,07 |
| 464 | 3 | —33 47 28,72 | 1,462 | 9,9614 | +8,6081 | ,1650 | ,9988 | 97 | +,014 | + ,07 |
| 465 | | +20 52 | 1,590 | 8,6990 | —8,4514 | ,2014 | ,9986 | 99 | +,013 | |
| 466 | 3 | +10 24 44,93 | 1,613 | +9,3927 | —8,1629 | —0,2077 | —9,9986 | 102 | +,019 | — ,18 |
| 467 | 4 | + 0 31 39,12 | 1,619 | +9,6284 | —6,8762 | ,2093 | ,9986 | 105 | +,026 | — ,12 |
| 468 | 2 | —36 37 5,38 | 1,619 | +9,9745 | +8,6829 | ,2093 | ,9986 | 112 | —,001 | — ,06 |
| 469 | 4 | +59 18 25,64 | 1,776 | —9,8028 | —8,8819 | ,2494 | ,9983 | 106 | +,001 | — ,18 |
| 470 | 4 | +20 31 26,62 | 1,851 | +8,7559 | —8,5102 | ,2675 | ,9981 | 120 | +,023 | + ,15 |
| 471 | 4 | —32 4 1,82 | 1,845 | +9,9528 | +8,6892 | —0,2661 | —9,9981 | 127 | +,015 | — ,08 |
| 472 | 2 | +15 57 39,02 | 1,950 | ,1584 | — ,4271 | ,2900 | ,9979 | 129 | +,005 | — ,06 |
| 473 | 4 | +10 2 42,67 | 1,950 | ,4031 | — ,2299 | ,2900 | ,9979 | 131 | +,014 | — ,12 |
| 474 | 3 | +17 53 15,62 | 2,008 | ,0294 | — ,4881 | ,3028 | ,9978 | 134 | ,000 | + ,04 |
| 475 | 3 | + 7 21 24,09 | 2,194 | ,4814 | — ,1462 | ,3412 | ,9974 | 149 | +,016 | + ,06 |
| 476 | 4 | +31 36 10,58 | 2,234 | —9,1818 | —8,7665 | —0,3491 | —9,9973 | 150 | +,013 | + ,02 |
| 477 | 4 | +16 53 6,42 | 2,240 | +9,1004 | — ,5113 | ,3502 | ,9973 | 153 | +,005 | + ,07 |
| 478 | 4 | +16 34 17,01 | 2,321 | +9,1238 | — ,5188 | ,3657 | ,9971 | 157 | +,017 | + ,03 |
| 479 | 4 | +24 35 3,10 | 2,483 | —8,2553 | — ,7121 | ,3950 | ,9966 | 168 | +,009 | — ,06 |
| 480 | 2 | —18 31 49,89 | 2,558 | +9,8609 | + ,6082 | ,4080 | ,9964 | 178 | +,009 | + ,09 |
| 481 | 3 | —31 45 16,99 | 2,657 | +9,9499 | +8,8437 | —0,4243 | —9,9961 | 187 | +,019 | — ,13 |
| 482 | 4 | —32 5 16,63 | 2,703 | + ,9557 | +8,8551 | ,4318 | ,9960 | 191 | +,035 | — ,03 |
| 483 | 3 | +59 35 51,24 | 2,795 | — ,8021 | —9,0802 | ,4464 | ,9957 | 184 | —,005 | — ,10 |
| 484 | 4 | —18 2 38,86 | 2,795 | + ,8573 | +8,6356 | ,4464 | ,9957 | 196 | +,014 | + ,14 |
| 485 | 3 | + 4 17 35,13 | 2,858 | + ,5551 | —8,0275 | ,4562 | ,9955 | 200 | +,016 | — ,13 |
| 486 | 4 | +53 12 16,50 | 3,205 | —9,7243 | —9,1073 | —0,5058 | —9,9944 | 215 | +,018 | — ,03 |
| 487 | 4 | + 2 39 49,87 | 3,262 | + ,5877 | —7,8792 | ,5135 | ,9942 | 221 | +,015 | — ,17 |
| 488 | 4 | —16 34 1,68 | 3,268 | + ,8432 | +8,6673 | ,5143 | ,9941 | 225 | +,011 | — ,05 |
| 489 | 3 | +46 21 37,52 | 3,320 | — ,6180 | —9,0787 | ,5211 | ,9940 | 220 | +,017 | — ,03 |
| 490 | 3 | —20 36 25,96 | 3,400 | + ,8768 | +8,7759 | ,5315 | ,9937 | 233 | +,023 | + ,01 |
| 491 | 4 | —20 26 19,65 | 3,412 | +9,8756 | +8,7739 | —0,5329 | —9,9936 | 235 | +,014 | — ,10 |
| 492 | 2 | —20 35 6,50 | 3,417 | + ,8762 | +8,7777 | ,5337 | ,9936 | 236 | +,029 | — ,02 |
| 493 | 5 | —20 55 43,69 | 3,498 | + ,8791 | +8,7948 | ,5438 | ,9933 | 242 | +,027 | — ,04 |
| 494 | 3 | —14 12 38,49 | 3,612 | + ,8215 | +8,6460 | ,5578 | ,9928 | 249 | +,016 | ,00 |
| 495 | 3 | +39 3 20,68 | 3,653 | — ,4518 | —9,0601 | ,5626 | ,9927 | 244 | +,013 | — ,13 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 496 | Canis. Maj. 8 | 3 | 6 43 24,66 | +2,237 | —8,1733 | +8,8894 | +0,3497 | +7,9019 |
| 497 | ——— 7.8 | 4 | 43 58,25 | 2,621 | ,1297 | 8,8397 | ,4185 | +7,6387 |
| 498 | h2 ——— 8.9 | 4 | 44 14,69 | 2,264 | ,1777 | 8,8850 | ,3549 | +7,8960 |
| 499 | Lyncis 8.9 | 4 | 44 36,04 | 5,150 | ,3869 | 9,0889 | ,7118 | —8,3143 |
| 500 | ——— 8 | | 44 | 5,142 | ,3892 | 9,0892 | ,7120 | —8,3168 |
| 501 | Geminor. 8 | | 45 | 3,490 | —8,1388 | +8,8369 | +0,5428 | —7,6261 |
| 502 | Canis. Maj. 8.9 | 3 | 45 8,00 | 2,181 | ,1986 | ,8973 | ,3387 | +7,9473 |
| 503 | ——— 9 | 3 | 46 17,13 | 2,637 | ,1503 | ,8373 | ,4211 | +7,6461 |
| 504 | Lyncis 8.9 | 4 | 51 31,83 | 4,488 | ,3451 | ,9829 | ,6520 | —8,2126 |
| 505 | Canis. Maj. 8 | 4 | 52 38,56 | 2,355 | ,2396 | ,8694 | ,3720 | +7,9218 |
| 506 | Geminor. 8 | 4 | 54 22,17 | 3,562 | —8,2261 | +8,8408 | +0,5517 | —7,7768 |
| 507 | Lyncis 8.9 | 3 | 54 28,48 | 4,600 | ,3877 | 9,0008 | ,6628 | —8,2702 |
| 508 | Canis. Maj. 8 | 4 | 58 4,90 | 2,731 | ,2388 | 8,8240 | ,4363 | +7,6413 |
| 509 | Lyncis 8 | 4 | 58 28,38 | 4,618 | ,4211 | 9,0028 | ,6644 | —8,3063 |
| 510 | Geminor. 8.9 | 3 | 58 37,87 | 3,436 | ,2443 | 8,8264 | ,5360 | —7,6815 |
| 511 | Navis 8 | 4 | 58 57,33 | 1,846 | —8,3690 | +8,9480 | +0,2662 | +8,2060 |
| 512 | Can. Min. 9 | 4 | 7 0 48,17 | 3,229 | ,2473 | ,8117 | ,5091 | —7,3393 |
| 513 | ——— 8.9 | 4 | 1 43,03 | 3,211 | ,2530 | ,8105 | ,5066 | —7,2956 |
| 514 | ——— 9 | 3 | 1 48,97 | 3,205 | ,2533 | ,8103 | ,5058 | —7,2785 |
| 515 | ——— 8 | 3 | 2 1,78 | 3,203 | ,2550 | ,8101 | ,5056 | —7,2742 |
| 516 | Can. Maj. 8 | 3 | 2 59,47 | 2,470 | —8,3010 | +8,8498 | +0,3927 | +7,9262 |
| 517 | Geminor. 8 | 3 | 3 16,97 | 3,445 | ,2791 | 8,8249 | ,5372 | —7,7286 |
| 518 | Can. Min. 9 | 4 | 3 27,95 | 3,305 | ,2693 | 8,8142 | ,5192 | —7,5286 |
| 519 | ——— 8 | 4 | 4 46,03 | 3,316 | ,2788 | 8,8142 | ,5207 | —7,5581 |
| 520 | Camelop. 9 | 4 | 5 34,06 | 5,288 | ,5776 | 9,1065 | ,7233 | —8,5152 |
| 521 | Can. Min. 9 | 4 | 5 40,14 | 3,255 | —8,2810 | +8,8103 | +0,5126 | —7,4405 |
| 522 | Lyncis. 8 | 4 | 6 15,04 | 4,190 | ,4043 | 8,9290 | ,6222 | —8,2231 |
| 523 | Can. Min. 8 | 4 | 6 31,43 | 3,288 | ,2882 | 8,8116 | ,5169 | —7,5178 |
| 524 | Camelop. 8.9 | 3 | 7 8,26 | 5,396 | ,6039 | 9,1222 | ,7321 | —8,5467 |
| 525 | ——— *var.* | 4 | 7 25,34 | 5,338 | ,5974 | 9,1139 | ,7274 | —8,5376 |
| 526 | Can. Min. 9 | 4 | 7 36,20 | 3,284 | —8,2947 | +8,8108 | +0,5164 | —7,5176 |
| 527 | ——— 8 | 3 | 8 1,21 | 3,287 | ,2974 | 8,8107 | ,5160 | —7,5254 |
| 528 | 19 Lyncis 8 | 4 | 9 26,50 | 4,927 | ,5485 | 9,0511 | ,6837 | —8,4648 |
| 529 | ——— 8.9 | 3 | 9 28,91 | 4,932 | ,5492 | 9,0518 | ,6930 | —8,4649 |
| 530 | Can. Maj. 8 | 2 | 12 24,44 | 2,485 | ,3585 | 8,8433 | ,3953 | +7,9790 |
| 531 | M. Navis 7 | 3 | 12 59,96 | 1,855 | —8,4613 | +8,9423 | +0,2683 | +8,3007 |
| 532 | Geminor. 8.9 | 2 | 14 33,61 | 3,611 | ,3666 | ,8371 | ,5576 | —7,9626 |
| 533 | ——— 7.8 | 3 | 15 33,86 | 3,864 | ,4081 | ,8723 | ,5870 | —8,1349 |
| 534 | Navis 8 | 3 | 15 55,80 | 2,288 | ,4072 | ,8698 | ,3595 | +8,1279 |
| 535 | Lyncis 8 | 3 | 20 40,82 | 4,406 | ,5279 | ,9614 | ,6440 | —8,3911 |
| 536 | Geminor. 8.9 | 4 | 21 14,43 | 3,733 | —8,4194 | +8,8497 | +0,5721 | —8,0903 |
| 537 | Monocer. 6.7 | 4 | 21 27,67 | 2,909 | ,3700 | ,7992 | ,4637 | +7,4701 |
| 538 | 1.*a* Geminor. 4.5 | 3 | 24 7,38 | 3,854 | ,4529 | ,8665 | ,5859 | —8,1799 |
| 539 | ——— 8 | 2 | 25 8,98 | 3,756 | ,4431 | ,8511 | ,5747 | —8,1282 |
| 540 | Can. Min. 8 | 4 | 26 20,17 | 3,190 | ,3926 | ,7943 | ,5038 | —7,3846 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 496 | 4 | —32 21 26,53 | —3,784 | +9,9508 | +9,0046 | —0,5780 | —9,9921 | 258 | +,010 | +0,07 |
| 497 | 4 | —18 49 28,07 | 3,836 | +9,8621 | +8,7909 | ,5839 | ,9919 | 260 | —,054 | ,00 |
| 498 | 2 | —31 30 50,91 | 3,859 | +9,9460 | +9,0028 | ,5864 | ,9918 | 262 | +,007 | + ,07 |
| 499 | 3 | +57 47 19,94 | 3,905 | —9,7774 | —9,2171 | ,5916 | ,9916 | 255 | +,008 | — ,11 |
| 500 | 2 | +57 49 52,96 | 3,922 | —9,7774 | —9,2191 | ,5935 | ,9915 | 256 | | — ,01 |
| 501 | 4 | +17 52 55,90 | 3,939 | +9,0492 | —8,7806 | —0,5954 | —9,9914 | 265 | | — ,04 |
| 502 | 4 | —34 5 10,58 | 3,933 | +9,9586 | +9,0414 | ,5947 | ,9915 | 268 | +,017 | + ,09 |
| 503 | 3 | —18 14 48,57 | 4,036 | +9,8567 | +8,7997 | ,6059 | ,9910 | 272 | +,020 | + ,18 |
| 504 | 4 | +47 29 8,31 | 4,498 | —9,6284 | —9,2185 | ,6530 | ,9888 | 298 | +,012 | + ,02 |
| 505 | 4 | —28 44 25,47 | 4,577 | +9,9269 | + ,0407 | ,6606 | ,9884 | 307 | +,016 | + ,19 |
| 506 | 4 | +20 49 48,34 | 4,730 | +8,7853 | —8,9236 | —0,6749 | —9,9876 | 311 | +,005 | + ,19 |
| 507 | 4 | +49 42 33,91 | 4,747 | —9,6628 | —9,2569 | ,6764 | ,9875 | 309 | —,009 | — ,11 |
| 508 | 4 | —14 37 43,77 | 5,041 | +9,8228 | +8,8030 | ,7025 | ,9858 | 328 | +,010 | — ,08 |
| 509 | 4 | +50 9 18,63 | 5,081 | —9,6674 | —9,2891 | ,7059 | ,9856 | 326 | —,063 | — ,16 |
| 510 | 1 | +15 47 29,85 | 5,075 | +9,1818 | —8,8407 | ,7054 | ,9856 | 329 | +,009 | + ,18 |
| 511 | 1 | —43 23 20,09 | 5,109 | +9,9908 | +9,2433 | —0,7083 | —9,9854 | 337 | —,007 | + ,09 |
| 512 | 4 | + 7 6 13,69 | 5,272 | 9,4941 | —8,5120 | ,7220 | ,9844 | 342 | +,015 | + ,11 |
| 513 | 4 | + 6 19 58,19 | 5,351 | 9,5119 | —8,4691 | ,7284 | ,9839 | 345 | +,017 | — ,22 |
| 514 | 2 | + 6 4 44,01 | 5,365 | 9,5185 | —8,4521 | ,7289 | ,9839 | 347 | +,060 | ,00 |
| 515 | 3 | + 5 59 58,28 | 5,379 | 9,5198 | —8,4497 | ,7307 | ,9838 | 1 | +,012 | — ,09 |
| 516 | 3 | —24 56 55,88 | 5,452 | +9,9025 | +9,0597 | —0,7365 | —9,9833 | 14 | —,003 | — ,13 |
| 517 | 4 | +16 21 11,90 | 5,485 | +9,1614 | —8,8867 | ,7392 | ,9831 | 9 | +,013 | + ,03 |
| 518 | 4 | +10 27 51,64 | 5,497 | +9,4014 | —8,6974 | ,7401 | ,9830 | 12 | +,014 | — ,21 |
| 519 | 3 | +10 57 49,14 | 5,609 | +9,3838 | —8,7262 | ,7489 | ,9823 | 23 | +,015 | + ,07 |
| 520 | 4 | +59 58 51,70 | 5,687 | —9,7875 | —9,3904 | ,7549 | ,9818 | 20 | +,021 | — ,11 |
| 521 | 3 | + 8 18 32,03 | 5,681 | +9,4639 | —8,6119 | —0,7545 | —9,9818 | 26 | +,015 | — ,01 |
| 522 | 4 | +41 13 44,67 | 5,737 | —9,4843 | 9,2756 | ,7587 | ,9814 | 28 | +,008 | + ,09 |
| 523 | 4 | + 9 46 34,39 | 5,754 | +9,4249 | 8,6875 | ,7600 | ,9813 | 34 | +,019 | — ,05 |
| 524 | 3 | +61 13 24,36 | 5,816 | —9,7993 | 9,4053 | ,7646 | ,9809 | 30 | +,004 | + ,21 |
| 525 | 4 | +60 37 14,61 | 5,838 | —9,7931 | 9,4045 | ,7662 | ,9807 | 33 | +,012 | — ,13 |
| 526 | 5 | + 9 37 6,21 | 5,843 | +9,4281 | —8,6875 | —0,7667 | —9,9807 | 40 | +,012 | — ,04 |
| 527 | 4 | + 9 44 50,07 | 5,877 | +9,4249 | —8,6952 | ,7691 | ,9805 | 43 | —,013 | — ,04 |
| 528 | 1 | +55 34 58,80 | 6,010 | —9,7340 | —9,3933 | ,7789 | ,9795 | 47 | +,034 | — ,11 |
| 529 | 4 | +55 38 23,08 | 6,010 | —9,7340 | —9,3936 | ,7789 | ,9795 | 49 | +,024 | — ,13 |
| 530 | 3 | —24 39 36,82 | 6,238 | +9,8982 | +9,1136 | ,7950 | ,9779 | 73 | —,004 | — ,09 |
| 531 | 4 | —43 41 23,49 | 6,288 | +9,9868 | +9,3359 | —0,7985 | —9,9775 | 82 | +,018 | + ,02 |
| 532 | 3 | +23 14 26,54 | 6,426 | +8,3979 | —9,1020 | ,8079 | ,9764 | 84 | +,016 | — 10 |
| 533 | 4 | +32 12 45,62 | 6,509 | —9,1367 | —9,2384 | ,8135 | ,9758 | 89 | —,005 | + ,08 |
| 534 | | —31 44 | 6,531 | +9,9375 | +9,2338 | ,8150 | ,9756 | 93 | +,005 | ,00 |
| 535 | 4 | +46 52 26,43 | 6,932 | —9,5888 | —9,4021 | ,8408 | ,9723 | 112 | +,005 | — ,01 |
| 536 | 5 | +27 57 31,16 | 6,976 | —8,7482 | —9,2125 | —0,8436 | —9,9720 | 118 | +,008 | — ,04 |
| 537 | 4 | — 7 13 28,04 | 6,992 | +9,7396 | +8,6427 | ,8446 | ,9718 | 120 | +,012 | + ,19 |
| 538 | 4 | +32 14 26,26 | 7,215 | —9,1173 | —9,2833 | ,8583 | ,9699 | 127 | ,000 | — ,08 |
| 539 | | +28 58 | 7,297 | —8,8513 | —9,2463 | ,8631 | ,9691 | 136 | +,018 | |
| 540 | 3 | + 5 38 56,01 | 7,390 | +9,5327 | —8,5586 | ,8686 | ,9683 | 142 | +,011 | — ,08 |

| No. | Star's name and Mag. | | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | *a* | *b* | *c* | *d* |
| | | | | *h. m. s.* | *s.* | | | | |
| 541 | Canis Min. | 7.8 | 4 | 7 26 22,02 | +3,146 | —8,3914 | +8,7931 | +0,4977 | —7,1933 |
| 542 | Navis | 7 | 3 | 27 18,52 | 2,403 | ,4502 | ,8464 | ,3807 | +8,1249 |
| 543 | Canis Min. | 7 | 5 | 27 50,87 | 3,203 | ,4004 | ,7936 | ,5056 | —7,4349 |
| 544 | ——— | 7.8 | 4 | 28 37,53 | 3,193 | ,4037 | ,7926 | ,5042 | —7,4058 |
| 545 | Navis | 8.9 | 3 | 28 57,59 | 2,538 | ,4394 | ,8268 | ,4045 | +8,0348 |
| 546 | Camelop. *pre.* | 8.9 | 4 | 30 14,04 | 5,778 | —8,7926 | +9,1718 | +0,7618 | —8,7518 |
| 547 | ——— *seq.* | 9 | 4 | 30 14,44 | 5,778 | ,7926 | 9,1718 | ,7618 | —8,7518 |
| 548 | K$^2$ Navis | 7.8 | | 32 | 2,457 | ,4649 | 8,8357 | ,3904 | +8,1134 |
| 549 | Canis Min. | 8 | 5 | 32 10,68 | 3,163 | ,4189 | 8,7889 | ,5001 | —7,3070 |
| 550 | Geminor. | 9 | 3 | 34 4,05 | 3,629 | ,4677 | 8,8274 | ,5598 | —8,0874 |
| 551 | Monocer. | 8 | 4 | 34 40,38 | 3,080 | —8,4284 | +8,7856 | +0,4885 | —6,4236 |
| 552 | ——— | 8.9 | 4 | 37 38,24 | 2,955 | ,4427 | ,7850 | ,4706 | +7,4082 |
| 553 | Navis | 7.8 | 3 | 37 49,16 | 2,190 | ,5325 | ,8741 | ,3404 | +8,3000 |
| 554 | 2$^1$ ——— | 8.9 | 4 | 37 56,30 | 2,758 | ,4556 | ,7965 | ,4406 | +7,8483 |
| 555 | 2$^2$ ——— | 7.8 | 4 | 37 56,57 | 2,758 | ,4559 | ,7965 | ,4406 | +7,8485 |
| 556 | Camelop. | 5.6 | 4 | 38 38,74 | 9,876 | —9,2032 | +9,5378 | +0,9946 | —9,1964 |
| 557 | Navis | 8.9 | 2 | 38 38,78 | 2,142 | 8,5445 | 8,8818 | ,3308 | +8,3273 |
| 558 | ——— | 8 | 3 | 40 20,04 | 2,139 | ,5525 | 8,8815 | ,3302 | +8,3372 |
| 559 | Lyncis | 7.8 | 4 | 40 29,26 | 3,872 | ,5324 | 8,8601 | ,5879 | —8,2758 |
| 560 | Monocer. | 8 | 2 | 42 17,94 | 2,881 | ,4649 | 8,7841 | ,4595 | +7,6487 |
| 561 | Monocer. | 7.8 | 2 | 42 18,81 | 3,001 | —8,4607 | +8,7796 | +0,4773 | +7,2075 |
| 562 | Navis | 8 | 2 | 44 26,01 | 2,680 | ,4897 | 8,7986 | ,4281 | +7,9781 |
| 563 | Geminor. | 8.9 | 4 | 44 27,24 | 3,838 | ,5435 | 8,8518 | ,5841 | —8,2761 |
| 564 | Monocer. | 7.8 | 3 | 44 42,01 | 2,963 | ,4708 | 8,7784 | ,4717 | +7,4125 |
| 565 | Camelop. | 8.9 | 4 | 45 7,66 | 5,655 | ,8482 | 9,1530 | ,7524 | —8,8060 |
| 566 | Monocer. | 8.9 | 4 | 46 18,45 | 3,019 | —8,4756 | +8,7756 | +0,4799 | +7,0945 |
| 567 | Canis Min. | 7.8 | 2 | 48 21,88 | 3,257 | ,4886 | 8,7787 | ,5128 | —7,6861 |
| 568 | Navis | 9 | 2 | 49 28,20 | 2,575 | ,5217 | 8,8068 | ,4108 | +8,1061 |
| 569 | Lyncis | 8 | 4 | 49 55,91 | 4,733 | ,7260 | 9,0083 | ,6751 | —8,6371 |
| 570 | Monocer. | 8.9 | 2 | 50 18,40 | 3,002 | ,4907 | 8,7721 | ,4774 | +7,2375 |
| 571 | Cancri | 7.8 | 4 | 51 14,26 | 3,504 | —8,5213 | +8,7981 | +0,5446 | —8,0605 |
| 572 | ——— | 8 | 3 | 52 31,81 | 3,500 | ,5259 | ,7965 | ,5441 | —8,0637 |
| 573 | Navis | 8 | 4 | 53 1,53 | 2,571 | ,5355 | ,8043 | ,4101 | +8,1259 |
| 574 | Cancri | 7.8 | 3 | 53 27,10 | 3,391 | ,5173 | ,7840 | ,5303 | —7,9414 |
| 575 | Monocer. | 8 | 2 | 56 45,97 | 3,006 | ,5133 | ,7653 | ,4780 | +7,2369 |
| 576 | Lyncis | 8 | 4 | 59 30,11 | 3,907 | —8,6137 | +8,8534 | +0,5918 | —8,3822 |
| 577 | Cancri | 9 | 4 | 8 0 5,72 | 3,292 | ,5317 | ,7691 | ,5175 | —7,8110 |
| 578 | Monocer. | 8.9 | 4 | 0 22,77 | 3,086 | ,5249 | ,7608 | ,4894 | —6,7368 |
| 579 | Cancri | 8 | 4 | 1 22,93 | 3,263 | ,5343 | ,7658 | ,5136 | —7,7579 |
| 580 | Monocer. | 8 | 4 | 2 4,38 | 2,942 | ,5328 | ,7615 | ,4686 | +7,5720 |
| 581 | Cancri | 8 | 2 | 2 48,25 | 3,444 | —8,5547 | +8,7802 | +0,5371 | —8,0478 |
| 582 | Navis | 9 | 4 | 3 43,07 | 2,685 | ,5584 | ,7803 | ,4289 | +8,0598 |
| 583 | Cancri | 8 | 3 | 4 34,20 | 3,297 | ,5466 | ,7646 | ,5181 | —7,8402 |
| 584 | Lyncis | 7 | 4 | 5 35,96 | 4,674 | ,7790 | ,9923 | ,6697 | —8,6904 |
| 585 | Cancri | 8 | 2 | 6 16,56 | 3,439 | ,5656 | ,7760 | ,5364 | —8,0571 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | s. | ″ |
| 541 | 4 | + 3 37 38,16 | —7,390 | +9,5729 | —8,3685 | —0,8686 | —9,9683 | 143 | +,018 | +0,02 |
| 542 | 4 | —28 12 57,90 | 7,470 | +9,9143 | +9,2461 | ,8733 | ,9675 | 148 | +,013 | + ,05 |
| 543 | 4 | + 6 13 11,63 | 7,514 | +9,5198 | —8,6085 | ,8759 | ,9671 | 150 | +,001 | + ,14 |
| 544 | 4 | + 5 45 55,05 | 7,579 | +9,5302 | —8,5797 | ,8796 | ,9665 | 158 | +,013 | + ,02 |
| 545 | 2 | —23 11 22,97 | 7,660 | +9,8831 | +9,1743 | ,8808 | ,9663 | 165 | +,003 | + ,05 |
| 546 | 1 | +65 32 13,62 | 7,724 | —9,8195 | —9,5450 | —0,8878 | —9,9651 | 159 | —,018 | + ,15 |
| 547 | 7 | +65 32 21,66 | 7,724 | —9,8195 | —9,5450 | ,8878 | ,9651 | 160 | —,013 | + ,08 |
| 548 | 3 | —26 26 4,51 | 7,853 | +9,9025 | +9,2416 | ,8950 | ,9638 | 177 | | + ,12 |
| 549 | 2 | + 4 27 4,75 | 7,863 | +9,5575 | —8,4818 | ,8956 | ,9637 | 174 | +,007 | + ,10 |
| 550 | 4 | +24 37 35,06 | 8,024 | +8,1139 | —9,2221 | ,9044 | ,9621 | 182 | +,001 | — ,07 |
| 551 | 4 | + 0 34 16,72 | 8,062 | +9,6284 | —7,6000 | —0,9064 | —9,9617 | 189 | +,010 | — ,03 |
| 552 | 4 | — 5 17 14,34 | 8,296 | ,7126 | +8,5824 | ,9188 | ,9592 | 202 | +,011 | — ,11 |
| 553 | 3 | —35 49 47,52 | 8,307 | ,9469 | +9,3849 | ,9194 | ,9591 | 206 | +,017 | — ,04 |
| 554 | 4 | —14 17 33,84 | 8,317 | ,8102 | +9,0107 | ,9200 | ,9590 | 204 | +,019 | — ,12 |
| 555 | 4 | —14 17 50,11 | 8,322 | ,8102 | +9,0110 | ,9202 | ,9589 | 205 | +,007 | — ,15 |
| 556 | 4 | +79 54 33,10 | 8,418 | —9,9124 | —9,6164 | —0,9252 | —9,9579 | 187 | —,017 | — ,16 |
| 557 | 2 | —37 19 52,61 | 8,375 | + ,9523 | +9,4038 | ,9230 | ,9583 | 209 | +,046 | + ,01 |
| 558 | | —37 32 | 8,508 | + ,9523 | +9,4126 | ,9298 | ,9569 | 218 | +,013 | |
| 559 | 4 | +33 38 24,41 | 8,529 | — ,1492 | —9,3723 | ,9309 | ,9566 | 215 | +,008 | + ,01 |
| 560 | 2 | — 8 46 28,91 | 8,665 | + ,7536 | +8,8197 | ,9378 | ,9551 | 228 | +,018 | ,00 |
| 561 | 4 | — 3 11 15,83 | 8,671 | +9,6839 | +8,3829 | —0,9381 | —9,9550 | 227 | +,009 | + ,03 |
| 562 | 4 | —17 56 30,56 | 8,833 | + ,8395 | +9,1330 | ,9461 | ,9531 | 241 | +,017 | + ,15 |
| 563 | 4 | +32 42 25,37 | 8,844 | — ,0792 | —9,3773 | ,9466 | ,9530 | 238 | —,013 | — ,10 |
| 564 | 4 | — 5 0 38,77 | 8,854 | + ,7076 | +8,5869 | ,9472 | ,9528 | 242 | +,005 | — ,17 |
| 565 | 3 | +65 10 40,78 | 8,901 | — ,8000 | —9,6053 | ,9495 | ,9523 | 236 | +,022 | — ,19 |
| 566 | 5 | — 2 22 20,04 | 8,980 | +9,6730 | +8,2702 | —0,9533 | —9,9513 | 247 | +,005 | ,00 |
| 567 | 4 | + 9 4 25,41 | 9,146 | + ,4609 | —8,8568 | ,9612 | ,9493 | 258 | +,006 | — ,05 |
| 568 | 3 | —22 34 16,13 | 9,229 | + ,8704 | +9,2475 | ,9652 | ,9483 | 264 | +,029 | + ,05 |
| 569 | 4 | +54 34 26,35 | 9,276 | — ,6730 | —9,5764 | ,9673 | ,9477 | 260 | +,007 | — ,11 |
| 570 | 4 | — 3 11 59,49 | 9,291 | + ,6830 | +8,4129 | ,9681 | ,9475 | 268 | +,014 | + ,08 |
| 571 | 4 | +20 15 32,10 | 9,368 | +9,0043 | —9,2089 | —0,9717 | —9,9465 | 272 | +,003 | — ,08 |
| 572 | 4 | +20 11 4,42 | 9,471 | ,0128 | —9,2123 | ,9764 | ,9451 | 280 | +,013 | — ,15 |
| 573 | 4 | —22 54 22,60 | 9,502 | ,8710 | +9,2662 | ,9778 | ,9447 | 287 | +,025 | + ,04 |
| 574 | 4 | +15 23 55,59 | 9,538 | ,2648 | —9,1016 | ,9795 | ,9442 | 286 | +,009 | — ,05 |
| 575 | 4 | — 3 2 7,98 | 9,925 | ,6803 | +8,4123 | ,9907 | ,9408 | 300 | +,014 | + ,18 |
| 576 | 4 | +35 56 21,18 | 10,003 | —9,1987 | —9,4666 | —1,0001 | —9,9378 | 308 | +,022 | — ,27 |
| 577 | 4 | +10 58 58,13 | 10,042 | + ,4166 | —8,9791 | ,0018 | ,9372 | 313 | +,019 | — ,01 |
| 578 | 1 | + 0 55 57,61 | 10,067 | + ,6232 | —7,9128 | ,0029 | ,9369 | 315 | +,004 | + ,04 |
| 579 | 4 | + 9 38 39,70 | 10,142 | + ,4533 | —8,9278 | ,0061 | ,9358 | 322 | +,004 | — ,06 |
| 580 | 1 | — 6 15 57,88 | 10,193 | + ,7202 | +8,7455 | ,0083 | ,9350 | 2 | +,026 | — ,04 |
| 581 | 1 | +18 7 56,40 | 10,247 | +9,1614 | —9,2017 | —1,0106 | —9,9342 | 6 | +,016 | — ,37 |
| 582 | 4 | —18 29 29,07 | 10,313 | + ,8351 | + ,2129 | ,0134 | ,9333 | 12 | +,019 | + ,03 |
| 583 | 4 | +11 20 19,62 | 10,382 | + ,4099 | — ,0077 | ,0163 | ,9321 | 13 | +,010 | — ,01 |
| 584 | 4 | +54 38 26,97 | 10,462 | — ,6484 | — ,6291 | ,0196 | ,9309 | 15 | +,014 | — ,15 |
| 585 | 4 | +18 4 3,63 | 10,512 | + ,1752 | — ,2113 | ,0217 | ,9301 | 20 | +,012 | — ,05 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h. m. s.* | *s.* | | | | |
| 586 | Navis 7 | 3 | 8 6 50,85 | +1,884 | —8,7044 | +8,9131 | +0,2751 | +8,5626 |
| 587 | Cancri 8 | 3 | 7 20,41 | 3,266 | ,5532 | ,7594 | ,5140 | —7,7886 |
| 588 | ——— 8 | 3 | 7 23,87 | 3,660 | ,5992 | ,8051 | ,5635 | —8,2642 |
| 589 | Lyncis 8 | 3 | 7 36,56 | 4,610 | ,7754 | ,9799 | ,6637 | —8,6816 |
| 590 | Cancri 8 | 1 | 8 46,54 | 3,260 | ,5573 | ,7573 | ,5132 | —7,7824 |
| 591 | Cancri 8 | 3 | 9 29,98 | 3,259 | —8,5595 | +8,7564 | +0,5131 | —7,7839 |
| 592 | Navis 8 | 4 | 9 52,24 | 2,750 | ,5710 | ,7645 | ,4393 | +8,0056 |
| 593 | Cancri 8 | 3 | 13 25,12 | 3,288 | ,5729 | ,7538 | ,5169 | —7,8600 |
| 594 | ——— 8.9 | 4 | 14 2,26 | 3,443 | ,5900 | ,7681 | ,5369 | —8,0948 |
| 595 | ——— 9 | 5 | 16 41,15 | 3,670 | ,6305 | ,7977 | ,5647 | —8,3101 |
| 596 | Cancri 7.8 | 3 | 16 54,11 | 3,584 | —8,6176 | +8,7840 | +0,5544 | —8,2446 |
| 597 | ——— 7.8 | 3 | 17 55,64 | 3,226 | ,5818 | ,7442 | ,5087 | —7,7343 |
| 598 | Navis 6 | 3 | 18 2,19 | 2,589 | ,6153 | ,7773 | ,4131 | +8,2166 |
| 599 | Monocer. 8 | 3 | 20 12,50 | 3,031 | ,5840 | ,7369 | ,4816 | +7,1232 |
| 600 | ——— 8 | 2 | 24 1,70 | 2,697 | ,6179 | ,7558 | ,4309 | +8,1298 |
| 601 | Monocer. 8.9 | 3 | 24 24,09 | 3,019 | —8,5951 | +8,7315 | +0,4799 | +7,2574 |
| 602 | ——— 8.9 | 4 | 25 16,31 | 3,023 | ,5973 | ,7302 | ,4804 | +7,2253 |
| 603 | Hydræ 7.8 | 4 | 26 52,13 | 3,129 | ,6017 | ,7283 | ,4954 | —7,3597 |
| 604 | Cancri 8 | 3 | 29 40,79 | 3,459 | ,6357 | ,7513 | ,5389 | —8,1746 |
| 605 | 3 Leo. Min. 7.8 | 5 | 29 41,71 | 3,764 | ,6860 | ,8013 | ,5756 | —8,4254 |
| 606 | Cancri 8 | 1 | 29 43,74 | 3,457 | —8,6356 | +8,7509 | +0,5387 | —8,1728 |
| 607 | Pixid. Naut. 7,8 | 2 | 30 4,50 | 2,555 | ,6547 | ,7689 | ,4074 | + ,2945 |
| 608 | 4 Leo. Min. 7 | 2 | 30 7,39 | 3,742 | ,6831 | ,7969 | ,5731 | — ,4134 |
| 609 | Cancri 8 | 3 | 30 15,99 | 3,466 | ,6383 | ,7515 | ,5398 | — ,1853 |
| 610 | ——— 8 | 2 | 30 53,26 | 3,445 | ,6384 | ,7490 | ,5372 | — ,1742 |
| 611 | Cancri 8 | 4 | 31 47,06 | 3,473 | —8,6432 | +8,7504 | +0,5407 | —8,1986 |
| 612 | Monocer. 9 | 2 | 35 33,42 | 2,948 | ,6251 | ,7177 | ,4695 | +7,6877 |
| 613 | Cancri 8 | 3 | 36 8,89 | 3,433 | ,6491 | ,7392 | ,5357 | —8,1704 |
| 614 | 10 Hydræ 7 | 3 | 36 19,90 | 3,182 | ,6266 | ,7162 | ,5027 | —7,1647 |
| 615 | Lyncis 9.10 | 5 | 36 33,36 | 4,468 | ,8506 | ,9389 | ,6501 | —8,7559 |
| 616 | Hydræ *pre.* 8 | 4 | 37 3,46 | 3,032 | —8,6260 | +8,7127 | +0,4817 | +7,1724 |
| 617 | ——— *seq.* 7.8 | 3 | 37 3,80 | 3,032 | ,6260 | ,7127 | ,4817 | +7,1724 |
| 618 | Cancri 8.9 | 2 | 37 29,13 | 3,272 | ,6350 | ,7202 | ,5148 | —7,9227 |
| 619 | Navis 9 | 3 | 38 53,33 | 2,142 | ,7589 | ,8389 | ,3308 | +8,5847 |
| 620 | Cancri 8 | 3 | 39 43,76 | 3,308 | ,6434 | ,7199 | ,5196 | —8,0015 |
| 621 | Lyncis 8 | 4 | 40 39,64 | 4,207 | —8,8100 | +8,8826 | +0,6240 | —8,6822 |
| 622 | Cancri 9 | 3 | 41 39,57 | 3,410 | ,6595 | ,7285 | ,5327 | — ,1636 |
| 623 | Navis 7 | 3 | 42 14,54 | 2,159 | ,7652 | ,8324 | ,3342 | + ,5914 |
| 624 | Pixid. Naut. 7 | 4 | 43 10,21 | 2,511 | ,6970 | ,7604 | ,3998 | + ,3808 |
| 625 | ——— 6.7 | 4 | 43 11,98 | 2,432 | ,7118 | ,7752 | ,3860 | + ,4383 |
| 626 | 3 H Navis 7.8 | 4 | 43 32,97 | 2,229 | —8,7542 | +8,8163 | +0,3481 | +8,5598 |
| 627 | Cancri 8 | 3 | 44 31,91 | 3,445 | ,6710 | ,7291 | ,5372 | —8,2167 |
| 628 | ——— 7.8 | 8 | 44 35,04 | 3,397 | ,6647 | ,7225 | ,5311 | —8,1582 |
| 629 | ——— 9 | 4 | 44 37,73 | 3,337 | ,6578 | ,7153 | ,5234 | —8,0713 |
| 630 | Hydræ *pre.* 8 | 4 | 45 9,93 | 3,227 | ,6491 | ,7049 | ,5088 | —7,8443 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 586 | 3 | —46 9 18,92 | —10,542 | +9,9605 | +9,5791 | —1,0229 | —9,9297 | 29 | +,016 | +0,03 |
| 587 | 4 | + 9 54 10,25 | 10,587 | +9,4487 | —8,9581 | ,0247 | ,9290 | 26 | +,007 | — ,20 |
| 588 | 4 | +27 32 56,11 | 10,592 | —7,9031 | —9,3881 | ,0249 | ,9289 | 24 | +,010 | — ,01 |
| 589 | 3 | +53 42 4,49 | 10,617 | —9,6294 | —9,6302 | ,0260 | ,9285 | 23 | +,004 | — ,03 |
| 590 | 4 | + 9 40 0,61 | 10,696 | +9,4564 | —8,9523 | ,0292 | ,9272 | 34 | +,010 | — ,10 |
| 591 | 4 | + 9 39 14,55 | 10,742 | +9,4579 | —8,9538 | —1,0314 | —9,9263 | 36 | +,007 | — ,14 |
| 592 | 1 | —15 46 56,30 | 10,774 | +9,8109 | +9,1650 | ,0324 | ,9259 | 39 | +,024 | — ,08 |
| 593 | 2 | +11 10 47,32 | 11,033 | +9,4216 | —9,0278 | ,0427 | ,9216 | 48 | +,016 | + ,04 |
| 594 | 3 | +18 39 24,39 | 11,082 | +9,1614 | —9,2471 | ,0446 | ,9208 | 51 | +,023 | + ,02 |
| 595 | 4 | +28 35 32,12 | 11,276 | —8,1761 | —9,4300 | ,0521 | ,9174 | 61 | +,003 | + ,01 |
| 596 | 3 | +25 4 0,19 | 11,290 | +8,6335 | —9,3778 | —1,0527 | —9,9171 | 66 | —,003 | — ,25 |
| 597 | 4 | + 8 10 55,46 | 11,362 | 9,4955 | —8,9059 | ,0555 | ,9158 | 70 | +,010 | — ,06 |
| 598 | 3 | —23 31 3,76 | 11,368 | 9,8615 | +9,3550 | ,0556 | ,9157 | 74 | +,005 | — ,02 |
| 599 | 3 | — 1 58 42,74 | 11,530 | 9,6646 | +8,2990 | ,0618 | ,9127 | 81 | —,001 | — ,02 |
| 600 | 4 | —18 57 21,63 | 11,796 | 9,8280 | +9,2816 | ,0717 | ,9077 | 94 | +,001 | + ,07 |
| 601 | 4 | — 2 37 38,78 | 11,823 | +9,6721 | +8,4330 | —1,0727 | —9,9071 | 97 | +,018 | — ,06 |
| 602 | 4 | — 2 25 18,28 | 11,884 | +9,6702 | +8,4010 | ,0750 | ,9059 | 100 | +,011 | — ,02 |
| 603 | 4 | + 3 18 9,78 | 11,997 | +9,5877 | —8,5351 | ,0791 | ,9037 | 107 | +,004 | — ,04 |
| 604 | 2 | +20 14 47,66 | 12,192 | +9,1238 | —9,3230 | ,0861 | ,8997 | 118 | +,021 | — ,10 |
| 605 | 4 | +33 17 59,65 | 12,197 | —8,8573 | —9,5237 | ,0862 | ,8996 | 117 | +,009 | — ,04 |
| 606 | | +20 9 | 12,197 | +9,1271 | —9,3214 | —1,0862 | —9,8996 | 119 | +,015 | |
| 607 | 3 | —25 50 52,38 | 12,216 | +9,8669 | + ,4247 | ,0869 | ,8992 | 125 | +,006 | — ,03 |
| 608 | 4 | +32 30 59,00 | 12,225 | —8,7781 | — ,5155 | ,0872 | ,8990 | 120 | +,005 | + ,05 |
| 609 | 4 | +20 39 32,10 | 12,234 | +9,1038 | — ,3326 | ,0876 | ,8988 | 121 | +,015 | ,00 |
| 610 | 2 | +20 6 19,29 | 12,280 | +9,1367 | — ,3230 | ,0892 | ,8978 | 128 | +,019 | — ,14 |
| 611 | 4 | +21 3 15,01 | 12,340 | +9,0864 | —9,3446 | —1,0913 | —9,8965 | 135 | | + ,08 |
| 612 | 1 | — 6 38 0,48 | 12,597 | 9,7168 | +9,8609 | ,1002 | ,8909 | 151 | +,004 | — ,05 |
| 613 | 4 | +19 24 24,55 | 12,613 | 9,1790 | —9,3212 | ,1018 | ,8899 | 156 | —,009 | — ,05 |
| 614 | 3 | + 6 16 14,69 | 12,650 | 9,5366 | —8,8382 | ,1021 | ,8897 | 157 | | + ,04 |
| 615 | 4 | +53 31 28,64 | 12,641 | —9,5623 | —9,7062 | ,1029 | ,8892 | 153 | ,000 | — ,06 |
| 616 | 3 | — 2 0 34,83 | 12,700 | +9,6637 | +8,3482 | —1,1038 | —9,8885 | 159 | +,001 | ,00 |
| 617 | 4 | — 2 0 34,21 | 12,700 | ,6637 | +8,3482 | ,1038 | ,8885 | 160 | +,004 | — ,04 |
| 618 | 4 | +11 11 15,93 | 12,727 | ,4407 | —9,0904 | ,1047 | ,8879 | 161 | +,001 | — ,03 |
| 619 | 3 | —42 1 44,45 | 12,817 | ,9227 | +9,6316 | ,1078 | ,8858 | 169 | +,024 | — ,41 |
| 620 | 2 | +13 11 46,41 | 12,879 | ,3944 | —9,1660 | ,1099 | ,8844 | 171 | +,024 | + ,02 |
| 621 | 4 | +48 10 46,31 | 12,946 | —9,4472 | —9,6824 | —1,1121 | —9,8828 | 174 | +,007 | — ,23 |
| 622 | 2 | +18 38 24,29 | 13,008 | +9,2253 | — ,3164 | ,1142 | ,8813 | 181 | +,021 | + ,06 |
| 623 | 2 | —41 51 37,70 | 13,039 | 9,9191 | + ,6377 | ,1152 | ,8805 | 187 | +,023 | + ,05 |
| 624 | 2 | —28 51 18,50 | 13,106 | 9,8722 | + ,4992 | ,1174 | ,8789 | 188 | +,023 | + ,12 |
| 625 | 4 | —32 10 16,96 | 13,106 | 9,8865 | + ,5419 | ,1174 | ,8789 | 190 | +,003 | — ,02 |
| 626 | 2 | —39 42 50,62 | 13,128 | +9,9122 | +9,6219 | —1,1182 | —9,8783 | 194 | +,009 | — ,07 |
| 627 | 4 | +20 34 56,12 | 13,198 | ,1523 | — ,3642 | ,1205 | ,8766 | 195 | —,004 | — ,01 |
| 628 | 5 | +18 9 38,43 | 13,203 | ,2504 | — ,3121 | ,1206 | ,8765 | 196 | +,009 | — ,01 |
| 629 | 4 | +15 1 22,53 | 13,207 | ,3502 | — ,2323 | ,1208 | ,8763 | 197 | +,023 | — ,13 |
| 630 | 4 | + 9 2 11,99 | 13,237 | ,4928 | — ,0150 | ,1218 | ,8756 | 200 | +,021 | + ,03 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 631 | Hydræ *seq.* 9 | 4 | 8 45 10,21 | +3,227 | —8,6491 | +8,7049 | +0,5088 | —7,8443 |
| 632 | 2,17 ——— 9 | 4 | 47 27,55 | 2,940 | ,6523 | ,6991 | ,4683 | +7,7593 |
| 633 | Cancri 7 | | 47 | 3,393 | ,6709 | ,7175 | ,5306 | —8,1632 |
| 634 | Hydræ 9 | 4 | 51 40,09 | 3,036 | ,6577 | ,6885 | ,4823 | +7,1820 |
| 635 | ——— 9 | 4 | 52 58,72 | 3,036 | ,6604 | ,6881 | ,4823 | +7,1847 |
| 636 | Hydræ 8.9 | 3 | 53 9,68 | 3,175 | —8,6631 | +8,6882 | +0,5017 | —7,7023 |
| 637 | ——— 8 | 4 | 53 18,01 | 3,054 | ,6608 | ,6854 | ,4849 | +6,8321 |
| 638 | ——— 8.9 | 3 | 53 56,18 | 2,937 | ,6660 | ,6882 | ,4679 | +7,7958 |
| 639 | Cancri 9 | 4 | 54 14,70 | 3,324 | ,6773 | ,6983 | ,5217 | —8,0851 |
| 640 | ρ ——— 8 | 2 | 54 22,63 | 3,594 | ,7192 | ,7397 | ,5556 | —8,3986 |
| 641 | Lyncis 9.10 | 1 | 55 25,20 | 3,849 | —8,7750 | +8,7915 | +0,5853 | —8,5747 |
| 642 | Monocer. 8 | 3 | 55 52,49 | 2,833 | ,6785 | ,6934 | ,4522 | +8,0555 |
| 643 | 74 Cancri 9 | 3 | 59 3,95 | 3,328 | ,6878 | ,6906 | ,5222 | —8,1105 |
| 644 | Hydræ 8.9 | 4 | 59 43,61 | 3,038 | ,6735 | ,6737 | ,4826 | +7,1746 |
| 645 | Navis 8.9 | 4 | 9 0 37,53 | 2,196 | ,8097 | ,8067 | ,3416 | +8,6423 |
| 646 | Pix. Naut. 7 | 4 | 1 29,47 | 2,627 | —8,7199 | +8,7136 | +0,4195 | +8,3488 |
| 647 | ——— 8 | 4 | 2 34,18 | 2,630 | ,7218 | ,7114 | ,4200 | +8,3501 |
| 648 | Hydræ 8 | 4 | 4 19,31 | 2,967 | ,6844 | ,6672 | ,4723 | +7,7225 |
| 649 | Monocer. 7 | 4 | 4 28,42 | 2,748 | ,7066 | ,6889 | ,4390 | +8,2211 |
| 650 | Hydræ 9 | 1 | 4 50,19 | 3,140 | ,6840 | ,6650 | ,4969 | —7,5770 |
| 651 | Cancri 9 | 5 | 4 54,03 | 3,511 | —8,7280 | +8,7086 | +0,5454 | —8,3646 |
| 652 | Hydræ 7.8 | 4 | 5 14,22 | 2,825 | ,6979 | ,6775 | ,4510 | +8,1038 |
| 653 | ——— 8 | 4 | 6 17,41 | 2,839 | ,6984 | ,6739 | ,4532 | +8,0826 |
| 654 | ——— 8 | 4 | 6 31,62 | 3,006 | ,6868 | ,6612 | ,4780 | +7,5138 |
| 655 | Navis 7.8 | 3 | 6 59,00 | 2,355 | ,7897 | ,7627 | ,3720 | +8,5785 |
| 656 | Cancri 8 | 4 | 7 14,29 | 3,391 | —8,7127 | +8,6844 | +0,5303 | —8,2358 |
| 657 | Hydræ 7 | 2 | 7 30,90 | 2,939 | ,6919 | ,6625 | ,4682 | +7,8390 |
| 658 | Navis 7.8 | 1 | 9 19,87 | 2,388 | ,7880 | ,7521 | ,3780 | +8,5669 |
| 659 | Hydræ 7 | 4 | 9 21,25 | 2,844 | ,7037 | ,6675 | ,4539 | +8,0848 |
| 660 | Leonis 8.9 | 4 | 10 25,12 | 3,543 | ,7461 | ,7057 | ,5494 | —8,4156 |
| 661 | Hydræ 7.8 | 3 | 11 13,83 | 3,160 | —8,6962 | +8,6530 | +0,4997 | —7,7070 |
| 662 | ——— 6.7 | 3 | 11 48,85 | 2,826 | ,7104 | ,6648 | ,4512 | +8,1281 |
| 663 | ——— 7 | 4 | 12 11,72 | 3,081 | ,6957 | ,6486 | ,4887 | —6,8754 |
| 664 | ——— 7 | 4 | 12 20,95 | 2,928 | ,7012 | ,6536 | ,4666 | +7,8915 |
| 665 | Leonis 7.8 | 4 | 12 21,07 | 3,287 | ,7086 | ,6610 | ,5168 | —8,0862 |
| 666 | Hydræ 8.9 | 3 | 13 10,21 | 2,831 | —8,7121 | +8,6615 | +0,4519 | +8,1228 |
| 667 | ——— 9 | 2 | 14 42,13 | 3,133 | ,7017 | ,6443 | ,4960 | —7,5658 |
| 668 | ——— 9.10 | 3 | 15 43,32 | 2,996 | ,7030 | ,6424 | ,4765 | +7,6134 |
| 669 | Ursœ Maj. 8.9 | 4 | 16 1,76 | 4,056 | ,8804 | ,8186 | ,6081 | —8,7546 |
| 670 | Hydræ 9 | 3 | 16 47,58 | 3,144 | ,7051 | ,6403 | ,4975 | —7,6424 |
| 671 | ——— 9 | 3 | 17 18,57 | 2,981 | —8,7063 | +8,6396 | +0,4744 | +7,7034 |
| 672 | Leonis 8 | 3 | 17 31,55 | 3,340 | 8,7248 | ,6573 | ,5237 | —8,2001 |
| 673 | *h* Ursœ Maj. 7 | 4 | 18 31,84 | 4,821 | 9,0605 | ,9890 | ,6831 | —9,0133 |
| 674 | Hydræ 8.9 | 3 | 20 49,61 | 3,038 | 8,7101 | ,6298 | ,4826 | +7,2637 |
| 675 | ——— 8.9 | 4 | 22 44,07 | 2,995 | 8,7144 | ,6269 | ,4764 | +7,6503 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 631 | 3 | + 9 2 4,75 | —13,237 | +9,4928 | —9,0150 | —1,1218 | —9,8756 | 201 | +,007 | +0,04 |
| 632 | 4 | — 7 20 49,85 | 13,390 | ,7202 | +8,9318 | ,1268 | ,8716 | 215 | +,019 | — ,08 |
| 633 | 3 | +18 6 21,48 | 13,394 | ,2553 | —9,3173 | ,1269 | ,8715 | 213 | | + ,02 |
| 634 | 4 | — 1 54 49,83 | 13,661 | ,6609 | +8,3578 | ,1355 | ,8644 | 228 | +,008 | + ,02 |
| 635 | 4 | — 1 55 15,68 | 13,746 | ,6609 | +8,3605 | ,1382 | ,8620 | 235 | —,005 | + ,01 |
| 636 | 4 | + 6 17 31,68 | 13,759 | +9,5453 | —8,8758 | —1,1386 | —9,8616 | 236 | +,021 | + ,04 |
| 637 | 4 | — 0 50 14,09 | 13,768 | 9,6484 | +8,0082 | ,1388 | ,8614 | 237 | +,018 | — ,14 |
| 638 | 4 | — 7 43 52,24 | 13,803 | 9,7226 | +8,9679 | ,1400 | ,8603 | 238 | +,012 | — ,06 |
| 639 | 4 | +14 49 33,88 | 13,828 | 9,3692 | —9,2465 | ,1407 | ,8597 | 240 | +,045 | — ,17 |
| 640 | 4 | +28 32 32,57 | 13,834 | 8,5441 | —9,5184 | ,1410 | ,8595 | 239 | +,010 | — ,03 |
| 641 | 1 | +39 5 27,58 | 13,902 | —9,0682 | —9,6408 | —1,1431 | —9,8575 | 243 | —,020 | + ,11 |
| 642 | 3 | —13 47 30,70 | 13,928 | +9,7723 | +9,2189 | ,1439 | ,8568 | 246 | +,010 | + ,16 |
| 643 | 4 | +15 22 1,20 | 14,128 | 9,3617 | —9,2709 | ,1501 | ,8509 | 257 | +,039 | — ,13 |
| 644 | 4 | — 1 49 4,83 | 14,169 | 9,6590 | +8,3504 | ,1513 | ,8496 | 260 | +,010 | + ,03 |
| 645 | 4 | —42 50 35,69 | 14,223 | 9,9015 | +9,6836 | ,1530 | ,8480 | 266 | ,000 | + ,11 |
| 646 | 3 | —25 10 47,03 | 14,275 | +9,8401 | +9,4815 | —1,1546 | —9,8463 | 268 | +,001 | — ,12 |
| 647 | 4 | —25 8 29,02 | 14,341 | ,8388 | +9,4830 | ,1566 | ,8442 | 5 | +,018 | — ,11 |
| 648 | 4 | — 6 15 40,45 | 14,450 | ,7050 | +8,8960 | ,1599 | ,8407 | 10 | +,020 | — ,07 |
| 649 | 4 | —19 4 50,14 | 14,458 | ,8035 | +9,3726 | ,1601 | ,8405 | 13 | +,011 | + ,06 |
| 650 | 3 | + 4 29 41,06 | 14,479 | ,5786 | —8,7518 | ,1607 | ,8398 | 15 | +,019 | — ,09 |
| 651 | 3 | +25 41 13,17 | 14,487 | +8,9638 | —9,4956 | —1,1610 | —9,8395 | 12 | +,015 | — ,01 |
| 652 | 4 | —14 44 56,82 | 14,502 | 9,7752 | +9,2653 | ,1614 | ,8390 | 16 | +,009 | — ,01 |
| 653 | 4 | —14 1 9,97 | 14,567 | 9,7686 | +9,2456 | ,1634 | ,8369 | 21 | +,007 | + ,05 |
| 654 | 4 | — 3 51 47,95 | 14,583 | 9,6803 | +8,6889 | ,1638 | ,8363 | 22 | +,014 | — ,02 |
| 655 | 4 | --37 56 28,71 | 14,607 | 9,8825 | +9,6514 | ,1646 | ,8355 | 26 | +,014 | + ,02 |
| 656 | 4 | +19 29 20,79 | 14,627 | +9,2577 | —9,3863 | —1,1651 | —9,8349 | 25 | +,001 | — ,02 |
| 657 | 4 | — 8 3 47,16 | 14,643 | 9,7210 | +9,0108 | ,1656 | ,8343 | 27 | —,001 | + ,07 |
| 658 | 1 | —36 56 59,11 | 14,747 | 9,8774 | +9,6457 | ,1687 | ,8308 | 44 | +,015 | ,00 |
| 659 | 4 | —13 53 29,41 | 14,750 | 9,7664 | +9,2479 | ,1688 | ,8306 | 39 | +,016 | + ,04 |
| 660 | 4 | +27 51 9,29 | 14,817 | 8,8388 | —9,5382 | ,1707 | ,8283 | 45 | —,011 | — ,02 |
| 661 | 4 | + 5 54 19,27 | 14,860 | +9,5599 | —8,8808 | —1,1720 | —9,8268 | 49 | +,012 | — ,01 |
| 662 | 4 | —15 8 41,30 | 14,897 | ,7738 | +9,2887 | ,1730 | ,8255 | 52 | +,017 | + ,17 |
| 663 | 4 | + 0 52 23,41 | 14,918 | ,6274 | —8,0515 | ,1737 | ,8247 | 54 | +,015 | ,00 |
| 664 | 4 | — 8 55 3,37 | 14,927 | ,7251 | +9,0623 | ,1739 | ,8244 | 56 | +,013 | + ,03 |
| 665 | 4 | +13 48 24,11 | 14,927 | ,4183 | —9,2494 | ,1739 | ,8244 | 55 | +,018 | — ,06 |
| 666 | 2 | —14 55 19,84 | 14,973 | +9,7716 | +9,2840 | —1,1753 | —9,8227 | 59 | +,022 | — ,26 |
| 667 | | + 4 12 | 15,006 | + ,5855 | —8,7407 | ,1780 | ,8193 | 64 | +,010 | |
| 668 | 4 | — 4 39 46,03 | 15,123 | + ,6866 | +8,7881 | ,1796 | ,8171 | 71 | —,006 | — ,04 |
| 669 | 4 | +48 28 35,68 | 15,142 | — ,3053 | —9,7523 | ,1802 | ,8164 | 70 | —,002 | — ,02 |
| 670 | 4 | + 4 59 13,07 | 15,182 | + ,5740 | —8,8168 | ,1814 | ,8147 | 76 | +,004 | — ,08 |
| 671 | 4 | — 5 42 3,73 | 15,213 | +9,6964 | +8,8773 | —1,1823 | —9,8136 | 80 | +,009 | — ,09 |
| 672 | 4 | +17 24 17,03 | 15,226 | + ,3424 | —9,3559 | ,1826 | ,8131 | 79 | +,017 | + ,08 |
| 673 | 4 | +63 46 22,45 | 15,287 | — ,5888 | —9,8352 | ,1843 | ,8108 | 82 | +,055 | — ,01 |
| 674 | 2 | — 2 2 15,93 | 15,413 | + ,6599 | +8,4395 | ,1879 | ,8056 | 95 | +,021 | — ,05 |
| 675 | 3 | — 4 56 52,16 | 15,518 | + ,6875 | +8,8248 | ,1908 | ,8014 | 102 | +,012 | — ,16 |

| No. | Star's name and Mag. | | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | *a* | *b* | *c* | *d* |
| | | | | *h. m. s.* | *s.* | | | | |
| 676 | Leonis | 5 | 4 | 9 23 41,26 | +3,536 | —8,7728 | +8,6815 | +0,5485 | —8,4595 |
| 677 | Hydræ | 8 | 4 | 24 12,59 | 3,105 | ,7155 | ,6223 | ,4921 | 7,3666 |
| 678 | Sextantis | 9 | 4 | 25 57,75 | 3,198 | ,7230 | ,6228 | ,5049 | 7,9125 |
| 679 | Leo. Min. | 6.7 | 4 | 26 57,93 | 3,582 | ,7903 | ,6862 | ,5541 | 8,5131 |
| 680 | ——— | 8.9 | 4 | 29 8,52 | 3,556 | ,7888 | ,6763 | ,5510 | 8,4992 |
| 681 | Hydræ | 8.9 | 5 | 29 13,37 | 3,102 | —8,7230 | +8,6101 | +0,4916 | —7,3479 |
| 682 | ——— | 8 | 4 | 29 50,12 | 3,104 | ,7239 | ,6086 | ,4919 | 7,3750 |
| 683 | Leo. Min. | 7 | 4 | 31 52,04 | 3,570 | ,7981 | ,6744 | ,5527 | 8,5223 |
| 684 | Leonis | 8 | 4 | 33 6,08 | 3,544 | ,7943 | ,6662 | ,5495 | 8,5041 |
| 685 | Sextantis | 9 | 4 | 34 56,40 | 3,114 | ,7314 | ,5961 | ,4933 | 7,4979 |
| 686 | Leonis | 7 | 4 | 37 2,29 | 3,371 | —8,7641 | +8,6203 | +0,5278 | —8,3230 |
| 687 | Antl. Pneum. | 8 | 2 | 37 4,86 | 2,753 | ,7665 | ,6227 | ,4398 | +8,3404 |
| 688 | ——— | 7.8 | 4 | 37 28,61 | 2,673 | ,7838 | ,6386 | ,4270 | +8,4393 |
| 689 | Sextantis | 7 | 3 | 37 55,78 | 3,102 | ,7352 | ,5879 | ,4916 | —7,3778 |
| 690 | ——— | 7.8 | 4 | 38 6,02 | 3,101 | ,7354 | ,5874 | ,4915 | —7,3664 |
| 691 | Sextantis | 8 | 4 | 40 24,98 | 2,980 | —8,7409 | +8,5837 | +0,4742 | +7,8003 |
| 692 | Leonis | 8 | 4 | 40 50,82 | 3,428 | ,7825 | ,6234 | ,5350 | —8,4133 |
| 693 | ——— | 7 | 4 | 41 4,03 | 3,227 | ,7484 | ,5852 | ,5088 | —8,0609 |
| 694 | Sextantis | 8.9 | 4 | 42 57,86 | 3,054 | ,7415 | ,5738 | ,4849 | +7,0248 |
| 695 | ——— | 7 | 4 | 45 18,20 | 2,948 | ,7499 | ,5729 | ,4695 | +7,9514 |
| 696 | Sextantis | 8 | 2 | 45 29,32 | 3,142 | —8,7467 | +8,5689 | +0,4972 | —7,7438 |
| 697 | Leonis | 8.9 | 4 | 46 14,45 | 3,170 | ,7497 | ,5686 | ,5011 | —7,8879 |
| 698 | Sextantis | 7.8 | 3 | 47 12,21 | 2,935 | ,7538 | ,5688 | ,4676 | +8,0055 |
| 699 | ——— | 7.8 | 4 | 47 14,99 | 3,176 | ,7516 | ,5663 | ,5019 | —7,9179 |
| 700 | Leonis | 8.9 | 4 | 48 59,95 | 3,490 | ,8128 | ,6201 | ,5428 | —8,5157 |
| 701 | Sextantis *pre.* | 7.8 | 4 | 49 23,26 | 3,053 | —8,7495 | +8,5554 | +0,4847 | +7,0675 |
| 702 | ——— *seq.* | 8 | 4 | 49 28,06 | 3,053 | ,7496 | ,5552 | ,4847 | +7,0646 |
| 703 | ——— | 7.8 | 4 | 50 14,72 | 3,138 | ,7525 | ,5548 | ,4966 | —7,7393 |
| 704 | ——— | 7.8 | 4 | 52 41,28 | 3,038 | ,7538 | ,5457 | ,4826 | +7,3788 |
| 705 | Hydræ | 7.8 | 4 | 54 36,46 | 2,914 | ,7661 | ,5500 | ,4645 | +8,1025 |
| 706 | Leonis | 8 | 4 | 54 49,76 | 3,198 | —8,7635 | +8,5462 | +0,5049 | —8,0309 |
| 707 | Sextantis | 7.8 | 4 | 55 6,81 | 3,125 | 8,7577 | ,5393 | ,4948 | 7,6758 |
| 708 | Ursœ Maj. | 8 | 4 | 55 46,18 | 4,104 | 9,0144 | ,7929 | ,6132 | 8,9352 |
| 709 | Sextantis | 8 | 3 | 10 58 0,40 | 3,118 | 8,7606 | ,5299 | ,4939 | 7,6305 |
| 710 | Leonis | 8 | 4 | 2 48,89 | 3,216 | 8,7756 | ,5238 | ,5073 | 8,1216 |
| 711 | Urs. Min. | 8 | 2 | 9 29,30 | 4,740 | —9,2317 | +8,9491 | +0,6758 | —9,2039 |
| 712 | Leo. Min. | 7.8 | 4 | 9 38,15 | 3,215 | 8,7847 | 8,5011 | 0,5072 | —8,1492 |
| 713 | Camelop. | 8 | 4 | 10 9,99 | 10,371 | 9,8518 | 9,5631 | 1,0158 | —9,8503 |
| 714 | Leonis | 8 | 4 | 10 54,00 | 3,306 | 8,8033 | 8,5148 | 0,5193 | —8,3616 |
| 715 | Ant. Pneum. | 8.9 | 2 | 11 36,23 | 2,743 | 8,8283 | 8,5364 | 0,4382 | +8,5023 |
| 716 | Leonis | 8.9 | 4 | 13 34,98 | 3,266 | —8,7980 | +8,4970 | +0,5140 | —8,2953 |
| 717 | Antl. Pneum. | 8 | 3 | 14 50,81 | 2,744 | ,8338 | ,5267 | ,4384 | +8,5159 |
| 718 | Hydræ | *neb.* | 4 | 16 52,94 | 2,882 | ,7999 | ,4830 | ,4597 | +8,2860 |
| 719 | Sextantis | 8.9 | 4 | 19 37,12 | 3,049 | ,7812 | ,4509 | ,4842 | +7,3018 |
| 720 | Antl. Pneum. | 9 | 4 | 22 2,89 | 2,714 | ,8575 | ,5152 | ,4336 | +8,5887 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *a'* | *b'* | *c'* | *d'* | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 676 | 5 | +29 5 26,00 | —15,573 | +8,8751 | —9,5871 | —1,1924 | —9,7990 | 109 | —,004 | — ,01 |
| 677 | 3 | + 2 35 12,75 | 15,599 | 9,6085 | 8,5422 | ,1931 | ,7979 | 114 | +,014 | ,00 |
| 678 | 4 | + 8 54 46,76 | 15,698 | 9,5224 | 9,0834 | ,1958 | ,7937 | 119 | +,007 | — ,02 |
| 679 | 4 | +31 53 34,92 | 15,751 | 8,6128 | 9,6181 | ,1973 | ,7913 | 124 | +,002 | — ,02 |
| 680 | 4 | +30 53 13,85 | 15,866 | 8,7634 | 9,6088 | ,2005 | ,7860 | 131 | +,027 | — ,01 |
| 681 | 4 | + 2 25 41,39 | 15,872 | +9,6107 | —8,5236 | —1,2007 | —9,7858 | 134 | +,007 | + ,04 |
| 682 | 3 | + 2 34 22,10 | 15,905 | 9,6096 | 8,5507 | ,2015 | ,7843 | 138 | —,007 | + ,05 |
| 683 | 4 | +32 1 11,30 | 16,017 | 8,6902 | 9,6268 | ,2046 | ,7790 | 145 | +,005 | + ,11 |
| 684 | 4 | +30 51 19,04 | 16,078 | 8,8261 | 9,6140 | ,2062 | ,7761 | 155 | —,001 | + ,05 |
| 685 | 4 | + 3 22 26,35 | 16,171 | 9,6010 | 8,6734 | ,2087 | ,7715 | 161 | +,004 | + ,08 |
| 686 | 4 | +21 14 30,95 | 16,280 | +9,2856 | —9,4686 | —1,2117 | —9,7659 | 165 | +,018 | + ,06 |
| 687 | 3 | —22 0 6,89 | 16,280 | ,7924 | +9,4836 | ,2117 | ,7659 | 167 | —,018 | — ,01 |
| 688 | 3 | —26 52 42,35 | 16,298 | ,8129 | +9,5657 | ,2121 | ,7650 | 170 | +,015 | ,00 |
| 689 | 4 | + 2 32 27,34 | 16,324 | ,6117 | —8,5534 | ,2128 | ,7636 | 171 | +,004 | — ,03 |
| 690 | 4 | + 2 28 22,01 | 16,335 | ,6117 | —8,5420 | ,2131 | ,7631 | 172 | +,015 | — ,01 |
| 691 | 4 | — 6 33 34,95 | 16,449 | +9,6964 | +8,9735 | —1,2161 | —9,7570 | 180 | +,021 | + ,02 |
| 692 | 4 | +25 19 12,21 | 16,472 | ,1732 | —9,5456 | ,2167 | ,7557 | 183 | +,010 | — ,02 |
| 693 | 4 | +11 52 13,26 | 16,485 | ,4885 | —9,2276 | ,2171 | ,7550 | 184 | +,010 | — ,09 |
| 694 | 4 | — 1 5 21,14 | 16,578 | ,6474 | +8,2008 | ,2195 | ,7498 | 192 | +,003 | — ,05 |
| 695 | 4 | — 9 8 2,62 | 16,688 | ,7126 | 9,1219 | ,2224 | ,7434 | 203 | +,018 | + ,02 |
| 696 | | + 5 43 | 16,698 | +9,5763 | —8,9177 | —1,2227 | —9,7428 | 204 | +,008 | |
| 697 | 4 | + 7 56 34,24 | 16,736 | ,5490 | —9,0598 | ,2237 | ,7405 | 206 | +,017 | — ,14 |
| 698 | 4 | —10 15 45,08 | 16,781 | ,7202 | +9,1745 | ,2248 | ,7378 | 210 | +,025 | — ,07 |
| 699 | 4 | + 8 27 8,53 | 16,784 | ,5428 | —9,0892 | ,2249 | ,7377 | 208 | +,013 | ,00 |
| 700 | 4 | +30 18 44,70 | 16,870 | ,0128 | —9,6280 | ,2271 | ,7324 | 214 | +,017 | — ,18 |
| 701 | 3 | — 1 9 50,84 | 16,885 | +9,6474 | +8,2405 | —1,2275 | —9,7314 | 219 | +,008 | + ,03 |
| 702 | 4 | — 1 10 4,47 | 16,889 | ,6474 | +8,2406 | ,2276 | ,7312 | 220 | +,010 | — ,01 |
| 703 | 4 | + 5 35 23,42 | 16,926 | ,5798 | —8,9134 | ,2286 | ,7288 | 222 | +,011 | — ,05 |
| 704 | 4 | — 2 24 17,09 | 17,041 | ,6590 | +8,5545 | ,2315 | ,7214 | 228 | +,012 | — ,01 |
| 705 | 4 | —12 30 31,08 | 17,126 | ,7300 | +9,2682 | ,2337 | ,7156 | 232 | +,004 | + ,07 |
| 706 | 4 | +10 41 20,69 | 17,119 | +9,5185 | —9,1994 | —1,2340 | —9,7148 | 234 | +,010 | — ,05 |
| 707 | 4 | + 4 45 32,89 | 17,150 | + ,5899 | 8,8504 | ,2343 | ,7139 | 235 | +,012 | — ,14 |
| 708 | 4 | +56 27 9,11 | 17,183 | — ,2765 | 9,8539 | ,2351 | ,7116 | 236 | +,004 | + ,02 |
| 709 | 4 | + 4 16 20,90 | 17,278 | + ,5966 | 8,8054 | ,2375 | ,7048 | 243 | —,001 | — ,18 |
| 710 | 4 | +12 50 30,71 | 17,488 | + ,4983 | 9,2868 | ,2427 | ,6890 | 4 | +,017 | — ,07 |
| 711 | 2 | +69 44 44,48 | 17,770 | —9,4533 | —9,9199 | —1,2497 | —9,6651 | 30 | +,007 | — ,10 |
| 712 | 4 | +13 26 25,43 | 17,770 | + ,4983 | — ,3133 | ,2497 | ,6651 | 34 | +,010 | — ,10 |
| 713 | 4 | +85 13 44,30 | 17,824 | — ,6228 | — ,9475 | ,2510 | ,6602 | 14 | —,016 | — ,02 |
| 714 | 3 | +21 13 31,79 | 17,821 | + ,3802 | — ,5072 | ,2509 | ,6605 | 37 | +,007 | + ,07 |
| 715 | 3 | —28 8 22,75 | 17,851 | + ,7767 | + ,6237 | ,2517 | ,6578 | 43 | +,011 | + ,08 |
| 716 | 4 | +18 20 25,21 | 17,928 | +9,4330 | —9,4488 | —1,2535 | —9,6505 | 50 | +,011 | — ,10 |
| 717 | 3 | —28 43 55,36 | 17,977 | ,7730 | +9,6349 | ,2547 | ,6457 | 56 | +,012 | + ,16 |
| 718 | 4 | —17 48 46,15 | 18,056 | ,7372 | +9,4407 | ,2566 | ,6377 | 68 | +,038 | — ,07 |
| 719 | 4 | — 1 52 45,52 | 18,158 | ,6513 | +8,4776 | ,2591 | ,6268 | 81 | +,012 | — ,10 |
| 720 | 4 | —32 34 13,81 | 18,246 | ,7701 | +9,6904 | ,2612 | ,6169 | 92 | +,028 | + ,04 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h. m. s.* | *s.* | | | | |
| 721 | Ursæ Maj. 8 | 4 | 10 22 28,51 | +3,837 | —9,0187 | +8,6737 | +0,5840 | —8,9290 |
| 722 | ——— 8 | 4 | 23 42,44 | 3,715 | 8,9765 | ,6254 | ,5701 | —8,8608 |
| 723 | Hydræ 8 | 3 | 24 38,07 | 2,842 | ,8206 | ,4648 | ,4536 | +8,4087 |
| 724 | 52 Navis 6.7 | 4 | 24 58,27 | 2,545 | ,9304 | ,5731 | ,4057 | +8,7740 |
| 725 | Antl. Pneum. 8 | 4 | 25 22,19 | 2,726 | ,8601 | ,5008 | ,4355 | +8,5909 |
| 726 | Antl. Pneum. 8 | 4 | 27 11,54 | 2,727 | —8,8635 | +8,4945 | +0,4357 | +8,5989 |
| 727 | ——— 8.9 | 4 | 29 1,27 | 2,807 | ,8383 | ,4598 | ,4482 | +8,4926 |
| 728 | Hydræ 8 | 4 | 31 9,65 | 2,916 | ,8093 | ,4194 | ,4648 | +8,2686 |
| 729 | Leonis 9 | 4 | 32 53,66 | 3,197 | ,8066 | ,4071 | ,5047 | —8,2143 |
| 730 | Sextantis 8 | 4 | 34 39,35 | 3,115 | ,7952 | ,3858 | ,4935 | —7,7768 |
| 731 | Leo. Min. 8 | 4 | 36 45,98 | 3,358 | —8,8638 | +8,4427 | +0,5261 | —8,5815 |
| 732 | Antl. Pneum. 8 | 4 | 37 22,57 | 2,809 | ,8527 | ,4281 | ,4485 | +8,5362 |
| 733 | Hydræ 8 | 4 | 38 55,05 | 2,945 | ,8112 | ,3776 | ,4691 | +8,2213 |
| 734 | Sextantis 8 | 4 | 42 0,86 | 3,004 | ,8028 | ,3507 | ,4777 | +7,9544 |
| 735 | Hyd. & Crat. 7 | 4 | 42 44,02 | 3,006 | ,8032 | ,3467 | ,4780 | +7,9485 |
| 736 | Sextantis 8 | 4 | 43 25,43 | 3,006 | —8,8036 | +8,3430 | +0,4780 | +7,9480 |
| 737 | Leonis 8.9 | 4 | 43 37,76 | 3,132 | ,8040 | ,3422 | ,4958 | —7,9643 |
| 738 | Ursæ Maj. 7 | 4 | 46 51,47 | 3,456 | ,9365 | ,4542 | ,5386 | —8,7692 |
| 739 | Leonis 8.9 | 4 | 47 24,28 | 3,130 | ,8067 | ,3210 | ,4955 | —7,9781 |
| 740 | ——— 8 | 4 | 49 53,12 | 3,233 | ,8373 | ,3356 | ,5096 | —8,4177 |
| 741 | Leonis 8 | 4 | 50 58,84 | 3,143 | —8,8118 | +8,3025 | +0,4973 | —8,0838 |
| 742 | ——— 8.9 | 4 | 52 45,63 | 3,178 | ,8220 | ,3005 | ,5021 | 8,2592 |
| 743 | ——— 7.8 | 4 | 53 59,95 | 3,135 | ,8124 | ,2827 | ,4962 | 8,0535 |
| 744 | ——— 8 | 4 | 54 9,28 | 3,073 | ,8059 | ,2751 | ,4876 | 6,9323 |
| 745 | Ursæ Maj. 8 | 4 | 55 35,79 | 3,368 | ,9169 | ,3753 | ,5274 | 8,7169 |
| 746 | Leonis 8 | 3 | 55 37,52 | 3,073 | —8,8067 | +8,2656 | +0,4876 | —6,9694 |
| 747 | ——— 7.8 | 4 | 55 56,46 | 3,156 | ,8190 | ,2756 | ,4991 | 8,1883 |
| 748 | ——— 8 | 1 | 58 4,71 | 3,118 | ,8120 | ,2560 | ,4939 | 7,9555 |
| 749 | ——— 7.8 | 4 | 58 39,39 | 3,137 | ,8164 | ,2530 | ,4965 | 8,1003 |
| 750 | Ursæ Maj. 7.8 | 3 | 59 22,59 | 3,565 | 9,0502 | ,4813 | ,5523 | 8,9637 |
| 751 | Leonis 7 | 4 | 59 54,68 | 3,062 | —8,8090 | +8,2360 | +0,4860 | +7,0651 |
| 752 | ——— 7 | 4 | 11 0 0,69 | 3,181 | ,8309 | ,2575 | ,5026 | —8,3229 |
| 753 | Leo. Min. 7 | 4 | 3 14,05 | 3,323 | ,9126 | ,3137 | ,5215 | —8,6997 |
| 754 | Leonis 8.9 | 5 | 5 55,92 | 3,077 | ,8120 | ,1912 | ,4481 | —7,3010 |
| 755 | ——— 8 | 3 | 6 7,77 | 3,143 | ,8241 | ,2016 | ,4973 | —8,1922 |
| 756 | Ursæ Maj. 7.8 | 3 | 9 4,70 | 3,300 | —8,9052 | +8,2911 | +0,5185 | —8,6777 |
| 757 | Leonis 7 | 4 | 9 47,63 | 3,134 | ,8245 | ,1703 | ,4961 | —8,1716 |
| 758 | Crateris 8 | 3 | 10 26,23 | 3,037 | ,8162 | ,1559 | ,4824 | +7,8378 |
| 759 | ——— 8 | 4 | 11 26,02 | 3,038 | ,8166 | ,1472 | ,4826 | +7,8382 |
| 760 | Leonis 8 | 4 | 13 2,57 | 3,091 | ,8163 | ,1325 | ,4901 | —7,7404 |
| 761 | Leonis 7.8 | 4 | 14 37,21 | 3,091 | —8,8171 | +8,1177 | +0,4901 | —7,7588 |
| 762 | Hydræ 8 | 3 | 14 53,75 | 2,883 | 8,9041 | ,2021 | ,4598 | +8,6666 |
| 763 | Ursæ Maj. 7 | 4 | 15 26,96 | 3,369 | 9,0030 | ,2951 | ,5275 | —8,8840 |
| 764 | Hydræ 7 | 4 | 15 51,61 | 2,888 | 8,9036 | ,1923 | ,4606 | +8,6646 |
| 765 | Leonis 8 | 2 | 17 14,70 | 3,096 | 8,8193 | ,0935 | ,4908 | —7,8819 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *a′* | *b′* | *c′* | *d′* | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 721 | 4 | +54 25 35,81 | —18,265 | —8,9445 | —9,8699 | —1,2616 | —9,6147 | 88 | +,011 | — ,10 |
| 722 | 5 | +50 1 14,71 | 18,309 | —8,5185 | —9,8449 | ,2626 | ,6096 | 96 | +,027 | — ,07 |
| 723 | 3 | —22 45 32,96 | 18,341 | +9,7451 | +9,5494 | ,2634 | ,6056 | 103 | +,007 | + ,04 |
| 724 | 4 | —44 13 29,33 | 18,350 | 7723 | +9,8053 | ,2636 | ,6045 | 107 | —,004 | — ,10 |
| 725 | 3 | —32 31 33,32 | 18,365 | 7642 | +9,6928 | ,2640 | ,6027 | 108 | +,022 | + ,06 |
| 726 | 4 | —32 55 8,09 | 18,429 | +9,7619 | +9,6989 | —1,2655 | —9,5945 | 115 | +,020 | + ,08 |
| 727 | 4 | —26 48 29,59 | 18,490 | ,7490 | +9,6193 | ,2669 | ,5865 | 120 | +,019 | ,00 |
| 728 | 4 | —16 43 31,34 | 18,561 | ,7202 | +9,4259 | ,2686 | ,5767 | 130 | +,016 | — ,01 |
| 729 | 4 | +14 49 54,01 | 18,619 | ,5119 | —9,3758 | ,2699 | ,5685 | 132 | +,020 | — ,16 |
| 730 | 4 | + 5 31 25,16 | 18,675 | ,5988 | —8,9509 | ,2713 | ,5599 | 140 | +,026 | — ,18 |
| 731 | 2 | +31 29 19,37 | 18,741 | +9,2672 | —9,6885 | —1,2728 | —9,5497 | 146 | +,020 | — ,01 |
| 732 | 4 | —28 49 24,41 | 18,760 | ,7404 | +9,6548 | ,2732 | ,5467 | 151 | +,017 | + ,08 |
| 733 | 4 | —14 52 14,19 | 18,807 | ,7059 | +9,3825 | ,2743 | ,5389 | 156 | +,020 | — ,22 |
| 734 | 3 | — 8 7 25,46 | 18,900 | ,6785 | +9,1260 | ,2764 | ,5224 | 168 | +,029 | — ,07 |
| 735 | 4 | — 8 1 | 18,921 | ,6776 | +9,1203 | ,2769 | ,5185 | 174 | +,011 | |
| 736 | 4 | — 7 59 49,14 | 18,940 | +9,6776 | +9,1199 | —1,2774 | —9,5148 | 178 | +,021 | + ,01 |
| 737 | 3 | + 8 19 52,53 | 18,946 | ,5821 | —9,1358 | ,2775 | ,5137 | 179 | +,013 | — ,15 |
| 738 | 4 | +42 53 6,50 | 19,038 | ,0212 | —9,8103 | ,2796 | ,4954 | 191 | +,009 | — ,08 |
| 739 | 3 | + 8 33 10,80 | 19,051 | ,5832 | —9,1493 | ,2799 | ,4923 | 195 | +,017 | — ,11 |
| 740 | 4 | +22 23 8,43 | 19,118 | ,4579 | —9,5598 | ,2814 | ,4777 | 201 | +,030 | — ‘03 |
| 741 | 4 | +10 48 29,25 | 19,147 | +9,5694 | —9,2522 | —1,2821 | —9,4709 | 204 | +,008 | — ,06 |
| 742 | 5 | +15 54 14,61 | 19,192 | ,5289 | 9,4184 | ,2831 | ,4597 | 213 | +,008 | — ,29 |
| 743 | 4 | +10 3 8,36 | 19,223 | ,5775 | 9,2229 | ,2838 | ,4521 | 220 | +,008 | — ,16 |
| 744 | 4 | + 0 47 9,28 | 19,226 | ,6335 | 8,1084 | ,2839 | ,4512 | 221 | +,017 | — ,09 |
| 745 | 3 | +39 7 43,06 | 19,262 | ,2122 | 9,7827 | ,2847 | ,4412 | 228 | —,001 | — ,01 |
| 746 | 4 | + 0 51 6,15 | 19,261 | +9,6335 | —8,1454 | —1,2847 | —9,4417 | 230 | +,011 | — ,08 |
| 747 | 4 | +13 32 59,92 | 19,270 | ,5539 | 9,3521 | ,2849 | ,4394 | 231 | +,002 | — ,03 |
| 748 | 3 | + 8 1 19,14 | 19,311 | ,5944 | 9,1274 | ,2858 | ,4278 | 239 | +,008 | + ,03 |
| 749 | 4 | +11 5 54,38 | 19,334 | ,5740 | 9,2682 | ,2863 | ,4209 | 244 | +,016 | — ,06 |
| 750 | 4 | +55 2 12,87 | 19,352 | 8,5563 | 9,8982 | ,2867 | ,4158 | 246 | +,009 | — ,28 |
| 751 | 4 | — 1 0 59,40 | 19,363 | +9,6425 | +8,2411 | —1,2870 | —9,4120 | 250 | +,031 | — ,06 |
| 752 | 4 | +18 5 41,90 | 19,364 | ,5224 | —9,4770 | ,2870 | ,4116 | 251 | +,011 | — ,11 |
| 753 | 5 | +37 46 53,61 | 19,437 | ,2856 | —9,7737 | ,2886 | ,3877 | 5 | —,006 | — ,17 |
| 754 | 4 | + 1 46 47,94 | 19,492 | ,6304 | —8,4768 | ,2899 | ,3671 | 15 | +,019 | + ,01 |
| 755 | 1 | +13 30 50,84 | 19,497 | ,5658 | —9,3562 | ,2899 | ,3655 | 17 | +,011 | — ,08 |
| 756 | 4 | +36 20 18,46 | 19,476 | +9,3222 | —9,7600 | —1,2895 | —9,3734 | 26 | +,016 | — ,05 |
| 757 | 4 | +12 52 52,38 | 19,569 | ,5740 | —9,3367 | ,2915 | ,3353 | 31 | +,015 | — ,15 |
| 758 | 3 | — 6 0 49,89 | 19,581 | ,6571 | +9,0115 | ,2918 | ,3296 | 35 | +,004 | — ,12 |
| 759 | 6 | — 6 0 9,30 | 19,599 | ,6571 | +9,0119 | ,2922 | ,3208 | 39 | +,003 | — ,08 |
| 760 | 4 | + 4 50 1,70 | 19,627 | ,6180 | —8,9150 | ,2928 | ,3070 | 45 | +,006 | — ,08 |
| 761 | 4 | + 5 2 1,65 | 19,655 | +9,6180 | —8,9332 | —1,2935 | —9,2921 | 47 | +,012 | — ,18 |
| 762 | 5 | —35 20 39,58 | 19,665 | ,6693 | +9,7541 | ,2937 | ,2896 | 51 | —,001 | — ,19 |
| 763 | 4 | +49 30 16,22 | 19,670 | ,1335 | —9,8727 | ,2938 | ,2838 | 52 | —,001 | — ,11 |
| 764 | 4 | —35 11 26,11 | 19,675 | ,6674 | +9,7529 | ,2939 | ,2806 | 57 | +,015 | — ,18 |
| 765 | 3 | + 6 38 57,84 | 19,698 | ,6128 | —9,0551 | ,2944 | ,2667 | 66 | +,014 | — ,11 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h. m. s.* | *s.* | | | | |
| 766 | Leonis 8 | 4 | 11 22 30,50 | +3,046 | —8,8240 | +8,0345 | +0,4837 | +7,8275 |
| 767 | 17 Hydræ 6.7 | 4 | 24 9,19 | 2,956 | ,8742 | 8,0698 | ,4707 | 8,5513 |
| 768 | ——— 8 | 4 | 24 22,98 | 2,948 | ,8815 | 8,0754 | ,4695 | 8,5816 |
| 769 | Crateris 8 | 4 | 25 17,51 | 3,048 | ,8211 | 8,0016 | ,4840 | 7,8143 |
| 770 | ——— 7.8 | 3 | 26 1,26 | 3,052 | ,8206 | 7,9925 | ,4846 | 7,7295 |
| 771 | Hydræ 9 | 4 | 27 43,54 | 2,943 | —8,9006 | +8,0493 | +0,4688 | +8,6470 |
| 772 | ——— 7 | 4 | 30 13,97 | 2,957 | ,8953 | 8,0088 | ,4708 | +8,6281 |
| 773 | Ursæ Maj. 7.8 | 3 | 33 2,69 | 3,206 | ,9508 | 8,0196 | ,5060 | —8,7774 |
| 774 | Crateris 8 | 4 | 33 34,42 | 3,007 | ,8532 | 7,9132 | ,4781 | +8,4224 |
| 775 | Hydræ 7.8 | 4 | 33 37,61 | 2,974 | ,8908 | 7,9508 | ,4733 | +8,6101 |
| 776 | Leonis 9 | 2 | 38 22,07 | 3,103 | —8,8389 | +7,8104 | +0,4918 | —8,2762 |
| 777 | Ursæ Maj. 8 | 4 | 41 59,71 | 3,171 | ,9697 | ,8608 | ,5012 | —8,8158 |
| 778 | Leonis 8 | 4 | 44 3,06 | 3,096 | ,8417 | ,6790 | ,4908 | —8,3014 |
| 779 | Virginis 8 | 4 | 45 4,42 | 3,067 | ,8236 | ,6323 | ,4867 | +7,5424 |
| 780 | Leonis 8 | 4 | 45 25,57 | 3,090 | ,8379 | ,6367 | ,4900 | —8,2486 |
| 781 | Virginis 7 | 4 | 45 39,99 | 3,076 | —8,8253 | +7,6159 | +0,4880 | —7,8273 |
| 782 | ——— 7 | 4 | 46 26,91 | 3,068 | ,8232 | ,5884 | ,4869 | +6,8054 |
| 783 | 65 Ursæ Maj. 7.8 | 4 | 46 32,47 | 3,151 | ,9924 | ,7533 | ,4984 | —8,8591 |
| 784 | Leonis 9.10 | 4 | 46 56,64 | 3,089 | ,8404 | ,5901 | ,4898 | —8,2807 |
| 785 | Virginis 8 | 4 | 47 0,72 | 3,070 | ,8235 | ,5710 | ,4871 | —7,3627 |
| 786 | Leonis 7.8 | 3 | 47 46,35 | 3,089 | —8,8418 | +7,5636 | +0,4898 | —8,2981 |
| 787 | Virginis 7.8 | 4 | 48 29,00 | 3,081 | ,8321 | ,5266 | ,4887 | 8,1286 |
| 788 | Leonis 9.10 | 3 | 49 13,27 | 3,087 | ,8436 | ,5090 | ,4895 | 8,3173 |
| 789 | Virginis 7 | 3 | 49 21,10 | 3,076 | ,8276 | ,4875 | ,4880 | 7,9639 |
| 790 | ——— 8.9 | 3 | 50 6,27 | 3,073 | ,8253 | ,4507 | ,4876 | 7,7854 |
| 791 | Ursæ Maj. 8.9 | 4 | 52 11,19 | 3,146 | —9,1280 | +7,6488 | +0,4978 | —9,0666 |
| 792 | Virginis 8 | 3 | 53 4,32 | 3,073 | 8,8274 | 7,2955 | ,4876 | —7,9372 |
| 793 | Corvi 8 | 4 | 55 53,49 | 3,060 | ,8513 | 7,0859 | ,4857 | +8,3884 |
| 794 | Leonis 8 | 4 | 57 2,46 | 3,073 | ,8461 | 6,9227 | ,4876 | —8,3404 |
| 795 | Hydræ 7.8 | 3 | 59 53,89 | 3,068 | ,9042 | —5,6690 | ,4869 | +8,6493 |
| 796 | Ursæ Maj. 8.9 | 4 | 12 0 6,96 | 3,070 | —9,0146 | —6,1773 | +0,4871 | —8,8980 |
| 797 | Corvi 7.8 | 4 | 5 10,24 | 3,080 | 8,8529 | 7,2252 | ,4885 | +8,4023 |
| 798 | Virginis 7 | 3 | 5 51,62 | 3,071 | ,8253 | ,2482 | ,4873 | +7,7509 |
| 799 | ——— 9.10 | 4 | 7 21,07 | 3,059 | ,8329 | ,3498 | ,4856 | —8,1417 |
| 800 | ——— 8 | 4 | 9 17,08 | 3,053 | ,8393 | ,4555 | ,4847 | —8,2616 |
| 801 | *1 Virginis 7 | 5 | 9 44,74 | 3,071 | —8,8241 | —7,4613 | +0,4873 | +7,5525 |
| 802 | Comæ Ber. 8 | 4 | 9 45,08 | 3,048 | ,8487 | ,4859 | ,4840 | —8,3686 |
| 803 | ——— 9 | 4 | 14 40,88 | 3,041 | ,8427 | ,6553 | ,4830 | —8,3119 |
| 804 | Virginis 7.8 | 4 | 16 10,39 | 3,060 | ,8246 | ,6800 | ,4857 | —7,7833 |
| 805 | ——— 8 | 3 | 16 18,02 | 3,058 | ,8251 | ,6840 | ,4854 | —7,8395 |
| 806 | Virginis 7.8 | 3 | 17 33,04 | 3,059 | —8,8243 | —7,7138 | +0,4856 | —7,7718 |
| 807 | Centauri 8 | 3 | 18 44,63 | 3,137 | ,8935 | ,8115 | ,4965 | +8,6162 |
| 808 | Virginis 9 | 4 | 19 17,83 | 3,057 | ,8242 | ,7544 | ,4853 | —7,7897 |
| 809 | ——— 8 | 4 | 19 22,85 | 3,071 | ,8225 | ,7541 | ,4873 | +7,2355 |
| 810 | ——— 8.9 | 4 | 19 53,94 | 3,033 | ,8405 | ,7853 | ,4819 | —8,2938 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 766 | 4 | — 5 48 55,68 | —19,779 | +9,6513 | +9,0013 | —1,2962 | —9,2092 | 91 | +,021 | —0,06 |
| 767 | 4 | —28 21 51,31 | 19,801 | ,6590 | ,6717 | ,2967 | ,1903 | 95 | +,002 | + ,17 |
| 768 | 4 | —30 4 6,57 | 19,802 | ,6551 | ,6948 | ,2967 | ,1887 | 97 | +,013 | — ,19 |
| 769 | 4 | — 5 37 56,65 | 19,817 | ,6503 | 8,9883 | ,2970 | ,1756 | 104 | +,008 | — ,17 |
| 770 | 3 | — 4 37 22,27 | 19,826 | ,6484 | ,9041 | ,2972 | ,1672 | 108 | +,011 | — ,11 |
| 771 | 4 | —33 52 47,08 | 19,847 | +9,6415 | +9,7422 | —1,2977 | —9,1444 | 112 | +,023 | ,00 |
| 772 | 4 | —32 41 51,28 | 19,877 | ,6385 | + ,7291 | ,2983 | ,1099 | 127 | +,012 | — ,02 |
| 773 | 4 | +42 8 53,89 | 19,907 | ,3874 | — ,8237 | ,2990 | ,0659 | 137 | +,051 | — ,07 |
| 774 | 4 | —21 44 37,22 | 19,913 | ,6484 | + ,5663 | ,2991 | ,0572 | 142 | +,005 | — ,06 |
| 775 | | —31 34 | 19,913 | ,6335 | + ,7165 | ,2991 | ,0572 | 143 | +,015 | |
| 776 | 4 | +15 54 45,01 | 19,957 | +9,5933 | —9,4353 | —1,3001 | —8,9696 | 155 | —,003 | ,00 |
| 777 | 4 | +44 34 15,58 | 19,982 | ,4065 | —9,8447 | ,3007 | ,8898 | 165 | +,026 | — ,10 |
| 778 | 4 | +16 45 50,49 | 19,996 | ,5977 | —9,4587 | ,3009 | ,8363 | 169 | +,012 | — ,07 |
| 779 | 4 | — 2 58 15,36 | 20,002 | ,6365 | +8,7179 | ,3011 | ,8078 | 173 | +,009 | — ,04 |
| 780 | 4 | +14 56 28,42 | 20,004 | ,6064 | —9,4098 | ,3011 | ,7979 | 177 | +,007 | — ,17 |
| 781 | 3 | + 5 47 26,33 | 20,005 | +9,6345 | —9,0012 | —1,3011 | —8,7898 | 180 | +,018 | — ,09 |
| 782 | 4 | — 0 31 33,81 | 20,009 | ,6385 | +7,9815 | ,3012 | ,7645 | 182 | +,015 | — ,47 |
| 783 | 1 | +47 23 22,81 | 20,010 | ,4014 | —9,8660 | ,3012 | ,7601 | 183 | +,016 | ,00 |
| 784 | 3 | +16 1 26,63 | 20,011 | ,6042 | —9,4396 | ,3013 | ,7490 | 186 | +,022 | — ,07 |
| 785 | 3 | + 2 0 39,83 | 20,012 | ,6375 | —8,5385 | ,3013 | ,7468 | 187 | +,018 | — ,04 |
| 786 | 3 | +16 38 38,71 | 20,015 | +9,6031 | —9,4557 | —1,3014 | —8,7212 | 194 | +,021 | — ,06 |
| 787 | 4 | +11 26 30,09 | 20,019 | ,6191 | ,2960 | ,3014 | ,6940 | 197 | +,006 | — ,02 |
| 788 | 4 | +17 20 39,71 | 20,021 | ,6021 | ,4732 | ,3015 | ,6650 | 198 | +,025 | — ,01 |
| 789 | 4 | + 7 53 23,50 | 20,022 | ,6274 | ,1358 | ,3016 | ,6595 | 201 | +,021 | — ,14 |
| 790 | 4 | + 5 15 17,53 | 20,026 | ,6314 | 8,9597 | ,3017 | ,6250 | 205 | +,002 | — ,23 |
| 791 | 4 | +60 15 53,62 | 20,032 | +9,2695 | —9,9384 | —1,3019 | —8,5205 | 210 | +,018 | — ,12 |
| 792 | 4 | + 7 25 9,72 | 20,036 | ,6294 | — ,1097 | ,3019 | ,4680 | 215 | +,016 | — ,01 |
| 793 | 4 | —20 7 33,69 | 20,040 | ,6159 | + ,5371 | ,3019 | ,2346 | 225 | +,005 | — ,19 |
| 794 | 4 | +18 12 16,98 | 20,041 | ,6107 | — ,4942 | ,3019 | ,0765 | 229 | +,006 | — ,11 |
| 795 | 4 | —33 45 38,73 | 20,043 | ,5575 | + ,7451 | ,3020 | +6,7648 | 240 | —,006 | + ,13 |
| 796 | 4 | +49 52 48,87 | 20,043 | +9,4456 | —9,8834 | —1,3020 | +7,1627 | 242 | ,000 | — ,25 |
| 797 | 4 | —20 43 21,41 | 20,038 | ,5999 | +9,5492 | ,3018 | 8,3722 | 14 | +,023 | — ,11 |
| 798 | 4 | — 4 48 36,73 | 20,037 | ,6345 | +8,9255 | ,3018 | ,4227 | 17 | —,004 | — ,01 |
| 799 | 4 | +11 46 49,73 | 20,035 | ,6355 | —9,3086 | ,3017 | ,5167 | 23 | +,009 | + ,04 |
| 800 | 4 | +15 21 19,08 | 20,027 | ,6325 | —9,4219 | ,3016 | ,6159 | 30 | +,003 | — ,16 |
| 801 | 4 | — 3 2 33,22 | 20,025 | +9,6355 | +8,7279 | —1,3016 | +8,6368 | 32 | +,007 | + ,05 |
| 802 | 3 | +19 20 49,26 | 20,025 | ,6263 | —9,5195 | ,3016 | ,6368 | 34 | +,011 | — ,08 |
| 803 | 4 | +17 9 19,59 | 20,001 | ,6375 | 9,4683 | ,3011 | ,8117 | 62 | +,014 | — ,07 |
| 804 | 4 | + 5 14 26,64 | 19,994 | ,6425 | 8,9575 | ,3008 | ,8513 | 72 | +,014 | — ,22 |
| 805 | 3 | + 5 57 26,29 | 19,991 | ,6425 | 9,0133 | ,3008 | ,8578 | 73 | +,013 | — ,31 |
| 806 | 4 | + 5 6 27,82 | 19,983 | +9,6425 | —8,9461 | —1,3007 | +8,8882 | 77 | +,004 | — ,20 |
| 807 | 2 | —31 52 4,46 | 19,975 | ,5366 | +9,7213 | ,3005 | ,9165 | 82 | —,005 | ,00 |
| 808 | | + 5 19 | 19,971 | ,6434 | —8,9639 | ,3004 | ,9285 | 86 | +,015 | |
| 809 | 1 | — 1 28 9,48 | 19,971 | ,6365 | +8,4115 | ,3004 | ,9301 | 89 | +,002 | — ,25 |
| 810 | 4 | +16 31 36,39 | 19,966 | ,6444 | —9,4517 | ,3003 | ,9432 | 94 | +,010 | + ,04 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 811 | Comæ Ber. 8 | 4 | 12 20 32,78 | +3,007 | —8,8714 | —7,8291 | +0,4781 | —8,5252 |
| 812 | Corvi 6 | 4 | 21 43,52 | 3,122 | ,8573 | ,8396 | ,4944 | +8,4459 |
| 813 | Virginis 7.8 | 2 | 23 20,41 | 3,041 | ,8299 | ,8429 | ,4830 | —8,1163 |
| 814 | ——— 8 | 4 | 23 22,31 | 3,037 | ,8329 | ,8472 | ,4824 | —8,1855 |
| 815 | Corvi 8 | 2 | 25 12,44 | 3,130 | ,8560 | ,9025 | ,4955 | +8,4413 |
| 816 | Can. Ven. 7 | 4 | 25 42,45 | 2,965 | —8,9039 | —7,9595 | +0,4720 | —8,6545 |
| 817 | 1 Comæ Ber. 7 | 4 | 26 52,72 | 3,013 | ,8459 | ,9202 | ,4790 | —8,3644 |
| 818 | Corvi 8 | 4 | 28 1,14 | 3,114 | ,8367 | ,9290 | ,4933 | +8,2636 |
| 819 | Virginis 9 | 4 | 28 46,98 | 3,022 | ,8357 | ,9403 | ,4803 | —8,2525 |
| 820 | ——— 6 | 1 | 30 55,13 | 3,090 | ,8233 | ,9590 | ,4900 | +7,9183 |
| 821 | Virginis 7.8 | 4 | 32 28,62 | 3,022 | —8,8319 | —7,9861 | +0,4803 | —8,2032 |
| 822 | Can. Ven. 7 | 4 | 34 30,29 | 2,854 | ,9831 | 8,1662 | ,4554 | —8,8455 |
| 823 | Comæ Ber. 7.8 | 3 | 34 35,75 | 2,955 | ,8780 | ,0628 | ,4706 | —8,5668 |
| 824 | Virginis 8.9 | 3 | 35 10,69 | 3,055 | ,8195 | ,0118 | ,4850 | —7,6052 |
| 825 | ——— 7.8 | 5 | 35 46,58 | 3,075 | ,8188 | ,0185 | ,4878 | +7,3543 |
| 826 | Virginis 8.9 | 4 | 38 8,79 | 3,068 | —8,8178 | —8,0453 | +0,4869 | —5,7587 |
| 827 | ——— 8 | 4 | 38 16,62 | 3,068 | ,8178 | ,0468 | ,4869 | —6,3954 |
| 828 | Comæ Ber. *pre.* 8 | 2 | 43 47,65 | 2,975 | ,8430 | ,1316 | ,4735 | —8,3777 |
| 829 | ——— 10 | 4 | 43 55,92 | 2,970 | ,8458 | ,1358 | ,4728 | —8,4007 |
| 830 | Can. Ven. 10 | 4 | 44 46,98 | 2,782 | ,9870 | ,2857 | ,4444 | —8,8557 |
| 831 | Virginis 9.10 | 4 | 45 57,15 | 3,100 | —8,8180 | —8,1284 | +0,4914 | +7,8871 |
| 832 | ——— 7.8 | 3 | 47 17,31 | 3,008 | ,8247 | ,1472 | ,4783 | —8,1561 |
| 833 | ——— 8.9 | 4 | 47 17,52 | 3,002 | ,8268 | ,1493 | ,4774 | —8,1961 |
| 834 | ——— 7.8 | 4 | 48 27,22 | 3,178 | ,8448 | ,1784 | ,5021 | +8,4050 |
| 835 | Centauri 8 | 3 | 49 55,90 | 3,253 | ,8876 | ,2345 | ,5123 | +8,6182 |
| 836 | Virginis 7 | 4 | 53 8,63 | 3,055 | —8,8124 | —8,1872 | +0,4850 | —7,4313 |
| 837 | Centauri 8 | 4 | 54 1,38 | 3,276 | ,8902 | ,2722 | ,5153 | +8,6313 |
| 838 | Comæ Ber. 7 | 4 | 55 3,56 | 2,926 | ,8515 | ,2414 | ,4663 | —8,4608 |
| 839 | Virginis 9 | 3 | 55 47,53 | 3,034 | ,8132 | ,2100 | ,4820 | —7,8361 |
| 840 | ——— 7.8 | 4 | 55 47,79 | 2,999 | ,8206 | ,2176 | ,4770 | —8,1420 |
| 841 | Virginis 8 | 4 | 56 22,48 | 3,062 | —8,8106 | —8,2122 | +0,4860 | —7,1132 |
| 842 | ——— 9 | 4 | 56 49,96 | 3,110 | 8,8138 | ,2191 | ,4928 | +7,9169 |
| 843 | Ursæ Maj. 8 | 4 | 57 16,34 | 2,598 | 9,0495 | ,4580 | ,4146 | —8,9619 |
| 844 | Virginis 8.9 | 4 | 57 25,79 | 3,038 | 8,8116 | ,2217 | ,4826 | —7,7476 |
| 845 | ——— 9 | 3 | 57 54,91 | 3,040 | 8,8113 | ,2250 | ,4829 | —7,7354 |
| 846 | Centauri 7.8 | 3 | 57 56,35 | 3,288 | —8,8874 | —8,3011 | +0,5169 | +8,6264 |
| 847 | Virginis 8.9 | 4 | 58 42,24 | 3,099 | 8,8112 | ,2306 | ,4912 | +7,7699 |
| 848 | Ursæ Maj. 8 | 3 | 59 33,89 | 2,519 | 9,0834 | ,5094 | ,4012 | —9,0112 |
| 849 | Virginis | 4 | 13 0 20,07 | 3,146 | 8,8191 | ,2512 | ,4978 | +8,1573 |
| 850 | Comæ Ber. | 3 | 1 27,89 | 2,950 | 8,8307 | ,2707 | ,4698 | —8,3288 |
| 851 | Can. Ven. 8 | 3 | 3 36,78 | 2,879 | —8,8579 | —8,3141 | +0,4592 | —8,5187 |
| 852 | Virginis | 5 | 4 44,07 | 3,152 | 8,8169 | ,2810 | ,4986 | +8,1562 |
| 853 | Ursæ Maj. 6.7 | 3 | 5 50,04 | 2,569 | 9,0237 | ,4953 | ,4098 | —8,9246 |
| 854 | Virginis *pre.* 7 | 4 | 6 21,62 | 3,139 | 8,8126 | ,2884 | ,4968 | +8,0733 |
| 855 | ——— *seq.* 8 | 4 | 6 24,38 | 3,139 | 8,8126 | ,2884 | ,4968 | +8,0733 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | s. | ″ |
| 811 | 2 | +26 48 32,74 | —19,961 | +9,6314 | —9,6520 | —1,3002 | +8,9559 | 96 | +,014 | +0,04 |
| 812 | 3 | —22 47 16,84 | 19,952 | ,5599 | + ,5866 | ,3000 | 8,9803 | 105 | +,015 | — ,03 |
| 813 | 2 | +11 10 47,04 | 19,942 | ,6484 | — ,2841 | ,2997 | 9,0107 | 113 | —,007 | ,00 |
| 814 | 3 | +13 2 4,43 | 19,937 | ,6484 | — ,3503 | ,2997 | ,0120 | 114 | +,021 | — ,16 |
| 815 | 3 | —22 36 13,20 | 19,920 | ,5539 | + ,5826 | ,2993 | ,0437 | 117 | +,024 | — ,07 |
| 816 | 4 | +34 17 23,50 | 19,915 | +9,6263 | —9,7477 | —1,2992 | +9,0527 | 124 | —,003 | — ,16 |
| 817 | 4 | +19 16 50,58 | 19,904 | ,6522 | — ,5154 | ,2989 | ,0712 | 132 | +,012 | — ,13 |
| 818 | 4 | —15 28 52,02 | 19,892 | ,5866 | + ,4236 | ,2987 | ,0890 | 134 | +,019 | — ,12 |
| 819 | 4 | +15 9 21,27 | 19,883 | ,6551 | — ,4133 | ,2985 | ,1011 | 138 | —,011 | — ,10 |
| 820 | 4 | — 7 7 39,86 | 19,859 | ,6170 | + ,0910 | ,2979 | ,1317 | 147 | +,011 | — ,16 |
| 821 | 4 | +13 37 3,80 | 19,843 | +9,6580 | —9,3669 | —1,2976 | +9,1498 | 154 | —, | — ,09 |
| 822 | 4 | +46 46 42,58 | 19,815 | ,6096 | —9,8573 | ,2970 | ,1781 | 164 | +,006 | + ,08 |
| 823 | 4 | +29 15 42,54 | 19,814 | ,6561 | —9,6837 | ,2969 | ,1797 | 165 | +,011 | — ,19 |
| 824 | 3 | + 3 31 14,43 | 19,805 | ,6454 | —8,7805 | ,2968 | ,1871 | 167 | +,013 | — ,03 |
| 825 | 4 | — 1 56 33,09 | 19,796 | ,6325 | +8,5301 | ,2966 | ,1943 | 170 | +,008 | — ,03 |
| 826 | 4 | + 0 4 30,95 | 19,764 | +9,6375 | —6,9347 | —1,2959 | +9,2214 | 174 | +,024 | — ,15 |
| 827 | 4 | + 0 14 3,20 | 19,762 | ,6375 | 7,5715 | ,2958 | ,2229 | 176 | +,014 | — ,16 |
| 828 | 6 | +20 3 35,53 | 19,675 | ,6748 | 9,5267 | ,2939 | ,2806 | 201 | +,036 | — ,17 |
| 829 | 4 | +21 3 52,04 | 19,674 | ,6758 | 9,5469 | ,2939 | ,2819 | 203 | +,027 | — ,17 |
| 830 | 4 | +47 40 7,59 | 19,658 | ,6464 | 9,8602 | ,2935 | ,2902 | 209 | +,012 | — ,09 |
| 831 | 3 | — 6 43 3,66 | 19,637 | +9,6107 | +9,0602 | —1,2931 | +9,3015 | 216 | +,016 | — ,16 |
| 832 | 4 | +12 23 15,47 | 19,615 | ,6702 | — ,3219 | ,2926 | ,3131 | 221 | +,022 | + ,04 |
| 833 | 4 | +13 35 33,81 | 19,615 | ,6721 | — ,3609 | ,2926 | ,3131 | 222 | +,026 | — ,11 |
| 834 | 4 | —21 16 53,56 | 19,594 | ,5159 | + ,5503 | ,2921 | ,3238 | 225 | +,019 | — ,03 |
| 835 | 4 | —32 30 6,00 | 19,566 | ,3979 | + ,7201 | ,2915 | ,3365 | 233 | +,011 | — ,07 |
| 836 | 4 | + 2 24 20,68 | 19,504 | +9,6464 | —8,6071 | —1,2901 | +9,3629 | 246 | +,023 | — ,06 |
| 837 | 4 | —33 24 24,98 | 19,486 | ,3674 | +9,7288 | ,2897 | ,3698 | 247 | +,015 | + ,08 |
| 838 | 3 | +24 5 7,63 | 19,464 | ,6937 | —9,5974 | ,2892 | ,3781 | 252 | +,011 | — ,02 |
| 839 | 4 | + 6 4 16,78 | 19,447 | ,6609 | —9,0097 | ,2889 | ,3837 | 256 | +,004 | — ,01 |
| 840 | 4 | +12 6 53,33 | 19,447 | ,6758 | —9,3083 | ,2889 | ,3837 | 257 | +,014 | + ,02 |
| 841 | 4 | + 1 10 57,11 | 19,435 | +9,6429 | —8,2892 | —1,2886 | +9,3882 | 258 | +,007 | — ,01 |
| 842 | 4 | — 7 16 2,87 | 19,425 | ,6021 | +9,0894 | ,2884 | ,3917 | 259 | +,027 | — ,13 |
| 843 | 4 | +54 50 2,47 | 19,417 | ,6561 | —9,8986 | ,2882 | ,3947 | 261 | +,005 | — ,23 |
| 844 | 5 | + 4 58 24,36 | 19,412 | ,6571 | —8,9220 | ,2881 | ,3961 | 260 | +,025 | — ,02 |
| 845 | 4 | + 4 49 35,18 | 19,402 | ,6571 | —8,9100 | ,2878 | ,3996 | 265 | +,024 | — ,26 |
| 846 | 3 | —33 14 14,89 | 19,402 | +9,3522 | +9,7249 | —1,2878 | +9,3996 | 263 | +,002 | — ,03 |
| 847 | 4 | — 5 12 11,55 | 19,386 | ,6117 | +8,9442 | ,2875 | ,4049 | 271 | +,005 | — ,13 |
| 848 | 4 | +57 54 14,08 | 19,367 | ,6522 | —9,9129 | ,2870 | ,4111 | 275 | +,023 | — ,09 |
| 849 | 3 | —12 33 45,96 | 19,348 | ,5647 | +9,3228 | ,2866 | ,4167 | 277 | +,002 | + ,14 |
| 850 | 4 | +18 21 39,37 | 19,324 | ,6955 | —9,4822 | ,2861 | ,4242 | 282 | +,025 | — ,07 |
| 851 | 4 | +27 15 41,00 | 19,272 | +9,7093 | —9,6437 | —1,2849 | +9,4390 | 10 | +,016 | — ,05 |
| 852 | 4 | —12 35 45,36 | 19,244 | ,5599 | + ,3216 | ,2843 | ,4465 | 19 | +,001 | — ,06 |
| 853 | 4 | +52 46 15,28 | 19,218 | ,6893 | — ,8826 | ,2837 | ,4533 | 24 | +,003 | + ,02 |
| 854 | 5 | —10 29 6,51 | 19,203 | ,5729 | + ,2520 | ,2834 | ,4572 | 25 | —,002 | — ,36 |
| 855 | 3 | —10 28 42,61 | 19,203 | ,5729 | + ,2420 | ,2834 | ,4572 | 26 | +,008 | — ,17 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h. m. s.* | *s.* | | | | |
| 856 | Virginis 8 | 3 | 13 6 57,78 | +3,117 | —8,8084 | —8,2883 | +0,4937 | +7,9065 |
| 857 | ——— 8.9 | 3 | 8 18,28 | 3,110 | 8,8066 | ,2956 | ,4928 | +7,8319 |
| 858 | ——— 7.8 | 4 | 8 19,77 | 3,154 | 8,8143 | ,3032 | ,4989 | +8,1433 |
| 859 | Ursæ Maj. 8.9 | 3 | 8 27,41 | 2,382 | 9,1072 | ,5961 | ,3769 | —9,0454 |
| 860 | Virginis 8 | 4 | 9 32,54 | 2,964 | 8,8178 | ,3147 | ,4719 | —8,2198 |
| 861 | ——— 8 | 4 | 10 3,07 | 3,107 | —8,8051 | —8,3056 | +0,4923 | +7,7801 |
| 862 | ——— 8 | 4 | 10 20,92 | 3,153 | ,8123 | ,3145 | ,4987 | 8,1230 |
| 863 | ——— 8 | 3 | 10 50,26 | 3,143 | ,8097 | ,3155 | ,4973 | 8,0621 |
| 864 | ——— 8 | 4 | 10 58,73 | 3,152 | ,8116 | ,3182 | ,4986 | 8,1162 |
| 865 | ——— 7.8 | 4 | 12 37,59 | 3,135 | ,8072 | ,3245 | ,4962 | 8,0094 |
| 866 | Hydræ 6 | 3 | 12 41,80 | 3,209 | —8,8250 | —8,3427 | +0,5064 | +8,3298 |
| 867 | Virginis 8 | 3 | 12 57,63 | 3,149 | ,8093 | ,3284 | ,4982 | +8,0860 |
| 868 | Comæ Ber. 8 | 3 | 13 49,29 | 2,925 | ,8242 | ,3487 | ,4661 | —8,3283 |
| 869 | Hydræ 8.9 | 3 | 13 58,49 | 3,199 | ,8206 | ,3464 | ,5050 | +8,2910 |
| 860 | Virginis 7 | 4 | 14 0,62 | 3,108 | ,8026 | ,3284 | ,4925 | +7,7722 |
| 871 | Ursæ Maj. *seq.* 6.7 | 4 | 17 19,76 | 2,417 | —9,0484 | —8,5944 | +0,3833 | —8,9658 |
| 872 | Virginis 7.8 | 3 | 18 22,50 | 3,108 | 8,7996 | ,3523 | ,4925 | +7,7484 |
| 873 | Hydræ 8 | 3 | 19 18,68 | 3,248 | ,8287 | ,3870 | ,5116 | +8,3941 |
| 974 | ——— 7 | 4 | 19 27,68 | 3,275 | ,8377 | ,3968 | ,5152 | +8,4535 |
| 875 | Virginis 7 | 2 | 19 52,03 | 3,068 | ,7968 | ,3583 | ,4869 | —5,5606 |
| 876 | Virginis 8 | 4 | 19 52,11 | 3,140 | —8,8021 | —8,3636 | +0,4969 | +7,9925 |
| 877 | ——— 7 | 2 | 20 26,57 | 2,931 | 8,8148 | ,3794 | ,4670 | —8,2696 |
| 878 | Hydræ 7 | 4 | 21 9,01 | 3,233 | 8,8216 | ,3904 | ,5096 | +8,3447 |
| 879 | Ursæ Min. 7 | 4 | 21 57,26 | 1,515 | 9,3349 | ,9080 | ,1804 | —9,3160 |
| 880 | Virginis 8 | 3 | 22 16,63 | 3,141 | 8,8004 | ,3758 | ,4971 | +7,9883 |
| 881 | Virginis 8 | | 22 | 3,080 | —8,7953 | —8,3707 | +0,4885 | +7,1985 |
| 882 | ——— 9 | 3 | 22 44,51 | 3,080 | 8,7950 | ,3731 | ,4885 | +7,1931 |
| 883 | Ursæ Maj. 8 | 3 | 22 48,39 | 2,223 | 9,1059 | ,6840 | ,3469 | —9,0466 |
| 884 | Hydræ 8 | 4 | 22 49,98 | 3,291 | 8,8385 | ,4170 | ,5173 | +8,4690 |
| 885 | Virginis 8.9 | 4 | 23 48,21 | 2,985 | 8,8004 | ,3846 | ,4749 | —8,0314 |
| 886 | Ursæ Min. 7 | 4 | 25 38,25 | 0,444 | —9,5308 | —9,1244 | +9,6474 | —9,5235 |
| 887 | Virginis 8 | 4 | 26 54,73 | 3,104 | 8,7928 | 8,3945 | 0,4919 | +7,6489 |
| 888 | ——— 8 | 4 | 27 17,18 | 3,146 | ,7968 | ,4003 | ,4978 | +7,9895 |
| 889 | ——— 8 | 3 | 28 14,84 | 3,209 | ,8071 | ,4160 | ,5064 | +8,2376 |
| 890 | ——— 9 | 4 | 29 6,17 | 3,119 | ,7923 | ,4056 | ,4940 | +7,7994 |
| 891 | Virginis 9 | 4 | 29 30,85 | 3,074 | —8,7898 | —8,4056 | +0,4877 | +6,9162 |
| 892 | ——— 8 | 4 | 30 2,69 | 3,093 | ,7899 | ,4082 | ,4904 | +7,4940 |
| 893 | ——— 8.9 | 4 | 30 10,59 | 3,049 | ,7895 | ,4089 | ,4842 | —7,3500 |
| 894 | ——— 7.8 | 4 | 30 44,29 | 3,010 | ,7915 | ,4137 | ,4786 | —7,8375 |
| 895 | Bootis 7.8 | 4 | 32 50,92 | 2,867 | ,8164 | ,4499 | ,4574 | —8,3675 |
| 896 | Virginis 9 | 3 | 34 16,95 | 3,167 | —8,7932 | —8,4339 | +0,5006 | +8,0532 |
| 897 | Can. Ven. 9 | 3 | 34 54,61 | 2,769 | 8,8437 | ,4875 | ,4423 | —8,5295 |
| 898 | Virginis 7 | 4 | 35 0,82 | 3,101 | 8,7864 | ,4302 | ,4915 | +7,5679 |
| 899 | ——— 7 | 3 | 35 3,94 | 2,991 | 8,7896 | ,4345 | ,4758 | —7,9394 |
| 900 | Draconis 7.8 | 3 | 36 23,09 | 1,862 | 9,1687 | ,8200 | ,2700 | —9,1282 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *a'* | *b'* | *c'* | *d'* | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 856 | 3 | — 7 11 17,12 | —19,188 | +9,5955 | +9,0791 | —1,2830 | +9,4609 | 28 | +,016 | —0,06 |
| 857 | 3 | — 6 3 58,53 | 19,154 | ,6031 | + ,0055 | ,2823 | ,4692 | 34 | +,011 | — ,10 |
| 858 | 3 | —12 17 24,79 | 19,154 | ,5587 | + ,3093 | ,2823 | ,4692 | 33 | +,018 | — ,09 |
| 859 | 4 | +60 9 43,19 | 19,154 | ,6730 | — ,9185 | ,2823 | ,4692 | 39 | —,035 | — ,11 |
| 860 | 4 | +14 37 44,15 | 19,123 | ,6946 | — ,3816 | ,2815 | ,4765 | 43 | ,000 | — ,14 |
| 861 | 4 | — 5 24 2,01 | 19,109 | +9,6064 | +8,9542 | —1,2812 | +9,4797 | 46 | +,012 | — ,15 |
| 862 | 4 | —11 46 56,62 | 19,102 | ,5599 | 9,2898 | ,2811 | ,4813 | 47 | +,007 | — ,04 |
| 863 | 4 | —10 17 2,72 | 19,087 | ,5717 | 9,2311 | ,2807 | ,4845 | 49 | +,011 | — ,10 |
| 864 | 4 | —11 37 8,05 | 19,084 | ,5599 | 9,2833 | ,2807 | ,4853 | 50 | +,006 | — ,06 |
| 865 | 4 | — 9 8 17,32 | 19,039 | ,5786 | 9,1799 | ,2796 | ,4950 | 58 | —,006 | + ,06 |
| 866 | 4 | —18 37 33,81 | 19,038 | +9,4928 | +9,4825 | —1,2796 | +9,4954 | 59 | ,000 | + ,04 |
| 867 | 4 | —10 53 4,85 | 19,031 | ,5647 | +9,2542 | ,2795 | ,4965 | 60 | +,012 | — ,11 |
| 868 | 2 | +18 37 40,09 | 19,008 | ,7093 | —9,4811 | ,2789 | ,5015 | 63 | +,026 | + ,04 |
| 869 | 4 | —17 10 7,06 | 19,002 | ,5065 | +9,4473 | ,2788 | ,5026 | 64 | —,004 | — ,11 |
| 870 | 4 | — 5 20 10,88 | 19,002 | ,6042 | +8,9464 | ,2788 | ,5026 | 67 | +,005 | — ,32 |
| 871 | 3 | +55 46 49,21 | 18,909 | +9,7143 | —9,8921 | —1,2767 | +9,5206 | 79 | +,050 | — ,04 |
| 872 | 4 | — 5 4 35,93 | 18,876 | ,6053 | +8,9228 | ,2759 | ,5267 | 81 | +,005 | — ,12 |
| 873 | 3 | —21 32 41,40 | 18,849 | ,4456 | +9,5387 | ,2753 | ,5316 | 86 | +,012 | — ,01 |
| 874 | 4 | —24 21 35,38 | 18,844 | ,4065 | +9,5890 | ,2752 | ,5323 | 87 | +,018 | — ,02 |
| 875 | 3 | + 0 1 47,22 | 18,833 | ,6375 | —6,4367 | ,2749 | ,5344 | 89 | +,018 | — ,52 |
| 876 | 4 | — 8 53 28,87 | 18,833 | +9,5752 | +9,1633 | —1,2749 | +9,5344 | 88 | +,019 | — ,01 |
| 877 | 4 | +16 33 38,08 | 18,817 | ,7109 | —9,4268 | ,2745 | ,5372 | 92 | +,010 | — ,02 |
| 878 | 4 | —19 27 44,01 | 18,794 | ,4669 | +9,4952 | ,2740 | ,5409 | 97 | —,010 | — ,05 |
| 879 | 4 | +73 14 41,12 | 18,772 | ,6628 | —9,9526 | ,2735 | ,5447 | 109 | +,004 | — ,02 |
| 880 | 5 | — 8 50 31,29 | 18,760 | ,5740 | +9,1592 | ,2732 | ,5467 | 103 | +,007 | + ,06 |
| 881 | 3 | — 1 25 33,10 | 18,760 | +9,6284 | +8,3745 | —1,2732 | +9,5467 | 104 | | — ,11 |
| 882 | 4 | — 1 24 50,70 | 18,745 | ,6284 | +8,3691 | ,2729 | ,5490 | 108 | +,013 | — ,10 |
| 883 | 4 | +60 46 42,95 | 18,745 | ,7168 | —9,9117 | ,2729 | ,5490 | 113 | —,008 | + ,03 |
| 884 | 4 | —25 16 4,91 | 18,743 | ,3830 | +9,6014 | ,2728 | ,5494 | 107 | +,009 | — ,11 |
| 885 | 4 | + 9 49 19,53 | 18,712 | ,6893 | —9,2001 | ,2721 | ,5543 | 116 | +,009 | — ,09 |
| 886 | 4 | +79 29 28,79 | 18,660 | +9,6415 | —9,9615 | —1,2709 | +9,5625 | 133 | —,027 | ,00 |
| 887 | 3 | — 4 5 19,18 | 18,612 | ,6085 | +9,8239 | ,2698 | ,5695 | 129 | +,024 | + ,06 |
| 888 | 5 | — 8 56 30,72 | 18,601 | ,5694 | +9,1603 | ,2695 | ,5711 | 132 | +,016 | + ,13 |
| 889 | 4 | —15 36 24,80 | 18,565 | ,5011 | +9,3973 | ,2688 | ,5758 | 139 | +,004 | — ,16 |
| 890 | 4 | — 5 48 52,72 | 18,540 | ,5944 | +8,9732 | ,2681 | ,5795 | 144 | +,018 | — ,13 |
| 891 | 4 | — 0 44 11,48 | 18,526 | +9,6325 | +8,0923 | —1,2678 | +9,5816 | 147 | +,012 | — ,28 |
| 892 | 5 | — 2 52 1,10 | 18,511 | ,6180 | +8,6695 | ,2674 | ,5837 | 148 | +,006 | + ,12 |
| 893 | 3 | + 2 5 33,35 | 18,504 | ,6513 | —8,5223 | ,2673 | ,5847 | 149 | +,006 | + ,02 |
| 894 | 4 | + 6 24 2,60 | 18,486 | ,6758 | —9,0109 | ,2668 | ,5871 | 153 | +,020 | + ,01 |
| 895 | 4 | +20 50 46,14 | 18,414 | ,7372 | —9,5142 | ,2651 | ,5966 | 161 | +,005 | + ,05 |
| 896 | 4 | —10 28 19,01 | 18,365 | +9,5490 | +9,2219 | —1,2640 | +9,6027 | 166 | +,001 | — ,13 |
| 897 | 2 | +29 1 59,20 | 18,341 | ,7597 | —9,6473 | ,2635 | ,6053 | 172 | +,010 | — ,12 |
| 898 | 4 | — 3 26 37,87 | 18,339 | ,6117 | +8,7429 | ,2636 | ,6059 | 171 | +,003 | — ,02 |
| 899 | 4 | + 8 7 45,59 | 18,337 | ,6875 | —9,1111 | ,2633 | ,6062 | 173 | +,026 | ,00 |
| 900 | 4 | +65 39 7,64 | 18,292 | ,7419 | —9,9198 | ,2622 | ,6116 | 184 | ,000 | — ,26 |

| No. | Star's name and Mag. | | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | *a* | *b* | *c* | *d* |
| | | | | *h.* *m.* *s.* | *s.* | | | | |
| 901 | Virginis | 9 | 4 | 13 36 42,27 | +3,092 | —8,7843 | —8,4373 | +0,4902 | +7,4240 |
| 902 | ——— | 7 | 4 | 36 53,89 | 3,180 | ,7926 | ,4469 | ,5024 | +8,0954 |
| 903 | ——— | 7 | 4 | 38 51,92 | 3,126 | ,7843 | ,4483 | ,4950 | +7,7963 |
| 904 | ——— | 8 | 3 | 38 52,29 | 3,084 | ,7822 | ,4462 | ,4891 | +7,2371 |
| 905 | Solittarii | 7.8 | 4 | 41 57,28 | 3,280 | ,8068 | ,4859 | ,5159 | +8,3446 |
| 906 | $k^3$ Centauri | 7 | 4 | 42 23,90 | 3,432 | —8,8514 | —8,5328 | +0,5355 | +8,5780 |
| 907 | Bootis | 7.8 | 4 | 42 36,28 | 2,834 | ,8117 | ,4940 | ,4524 | —8,3862 |
| 908 | ——— | 7.8 | 3 | 42 39,26 | 2,833 | ,8116 | ,4944 | ,4522 | —8,3865 |
| 909 | Virginis | 7 | 4 | 43 50,69 | 2,936 | ,7883 | ,4768 | ,4678 | —8,1310 |
| 910 | Bootis | 8 | 4 | 43 58,98 | 2,913 | ,7921 | ,4812 | ,4643 | —8,1998 |
| 911 | Bootis | 7.8 | 2 | 45 15,18 | 2,925 | —8,7884 | —8,4836 | +0,4661 | —8,1577 |
| 912 | Virginis | 8.9 | 2 | 46 13,49 | 2,980 | 8,7799 | 8,4796 | ,4742 | —7,9411 |
| 913 | ——— | 8 | 5 | 46 40,25 | 2,978 | 8,7796 | 8,4814 | ,4739 | —7,9467 |
| 914 | ——— | 8 | 3 | 46 59,56 | 3,025 | 8,7756 | 8,4791 | ,4807 | —7,6246 |
| 915 | Camelop. | 7 | 4 | 47 28,09 | 2,258 | 9,7242 | 9,4269 | — ,3537 | —9,7214 |
| 916 | Virginis | 8 | 4 | 47 57,91 | +3,167 | —8,7793 | —8,4871 | +0,5006 | +7,9855 |
| 917 | ——— | 8 | 2 | 49 6,73 | 3,118 | ,7740 | ,4871 | ,4939 | +7,6875 |
| 918 | ——— | 7 | 3 | 49 40,05 | 3,190 | ,7805 | ,4960 | ,5038 | +8,0713 |
| 919 | Bootis | 7 | 3 | 49 59,20 | 2,879 | ,7911 | ,5082 | ,4592 | —8,2566 |
| 920 | ——— | 7.8 | 4 | 50 55,84 | 2,897 | ,7865 | ,5079 | ,4619 | —8,2088 |
| 921 | ——— | 9 | 4 | 51 7,30 | 2,885 | —8,7885 | —8,5108 | +0,4601 | —8,2375 |
| 922 | Virginis | 9 | 1 | 52 13,42 | 3,149 | 8,7730 | ,5005 | ,4982 | +7,8770 |
| 923 | ——— | 8 | 3 | 53 34,68 | 3,194 | 8,7765 | ,5102 | ,5013 | +8,0666 |
| 924 | Draconis | 8 | 3 | 54 35,58 | 1,683 | 9,1439 | ,8817 | ,2261 | —9,1017 |
| 925 | Virginis | 9 | 4 | 56 31,48 | 3,162 | 8,7695 | ,5164 | ,5000 | +7,9272 |
| 926 | Hydræ | 8 | 4 | 57 0,53 | 3,384 | —8,8101 | —8,5591 | +0,5294 | +8,4488 |
| 927 | Virginis | 7.8 | 3 | 58 18,78 | 3,250 | ,7790 | ,5337 | ,5119 | +8,2036 |
| 928 | Solittarii | 1.0 | 3 | 58 57,29 | 3,296 | ,7865 | ,5442 | ,5180 | +8,2977 |
| 929 | Hydræ | 9 | 3 | 59 13,35 | 3,391 | ,8079 | ,5667 | ,5303 | +8,4477 |
| 930 | Virginis | 8 | 3 | 59 36,69 | 3,207 | ,7709 | ,5315 | ,5061 | +8,0810 |
| 931 | Virginis | 7.8 | 4 | 14 1 11,06 | 3,026 | —8,7608 | —8,5281 | +0,4809 | —7,5547 |
| 932 | ——— | 8 | 3 | 1 25,43 | 2,937 | ,7677 | ,5362 | ,4679 | —8,0490 |
| 933 | ——— | 8.9 | 2 | 2 35,11 | 3,185 | ,7647 | ,5380 | ,5031 | +7,9920 |
| 934 | ——— | 8.9 | 1 | 2 43,23 | 3,006 | ,7599 | ,5341 | ,4780 | —7,7144 |
| 935 | ——— | 8 | 1 | 4 2,69 | 3,095 | ,7571 | ,5367 | ,4907 | +7,3445 |
| 936 | Bootis | 7.8 | 3 | 4 40,28 | 2,961 | —8,7611 | —8,5436 | +0,4714 | —7,9441 |
| 937 | ——— | 8 | 2 | 6 2,07 | 2,962 | ,7594 | ,5476 | ,4716 | —7,9358 |
| 938 | $\kappa^1$ ——— | 8.9 | 3 | 7 35,09 | 2,146 | ,9686 | ,7630 | ,3316 | —8,8683 |
| 939 | ——— | 9 | 4 | 9 38,56 | 2,914 | ,7599 | ,5633 | ,4645 | —8,0807 |
| 940 | Virginis | 7.8 | 3 | 10 14,63 | 3,013 | ,7507 | ,5566 | ,4790 | —7,6373 |
| 941 | Solittarii | 7.8 | 4 | 10 22,77 | 3,299 | —8,7705 | —8,5772 | +0,5184 | +8,2554 |
| 942 | Virginis | 8 | 3 | 11 27,82 | 2,984 | ,7509 | ,5618 | ,4748 | —7,8135 |
| 943 | Hydræ | 9 | 2 | 13 58,32 | 3,445 | ,7952 | ,6166 | ,5372 | +8,4532 |
| 944 | ——— | 8 | 4 | 14 30,35 | 3,446 | ,7942 | ,6180 | ,5373 | +8,4513 |
| 945 | Virginis | 7.8 | 3 | 16 7,87 | 3,089 | ,7422 | ,5726 | ,4898 | +7,1927 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *a'* | *b'* | *c'* | *d'* | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 901 | 4 | — 2 29 16,29 | —18,279 | +9,6180 | +8,5997 | —1,2620 | +9,6130 | 182 | ,000 | + ,06 |
| 902 | 4 | —11 33 32,96 | 18,277 | ,5340 | 9,2625 | ,2619 | ,6141 | 183 | +,013 | + ,02 |
| 903 | 4 | — 5 52 56,36 | 18,200 | ,5899 | 8,9700 | ,2601 | ,6221 | 192 | +,007 | — ,06 |
| 904 | 4 | — 1 37 12,79 | 18,200 | ,6253 | 8,4130 | ,2601 | ,6221 | 193 | +,011 | + ,01 |
| 905 | 4 | —20 10 7,06 | 18,086 | ,4133 | 9,4932 | ,2573 | ,6345 | 212 | +,015 | — ,14 |
| 906 | 5 | —32 10 39,21 | 18,067 | +9,1367 | +9,6816 | —1,2569 | +9,6364 | 217 | —,009 | — ,02 |
| 907 | 3 | +22 4 19,57 | 18,061 | ,7520 | —9,5293 | ,2567 | ,6371 | 219 | +,011 | + ,07 |
| 908 | 5 | +22 5 35,74 | 18,058 | ,7520 | —9,5295 | ,2567 | ,6374 | 220 | +,004 | + ,08 |
| 909 | 4 | +12 45 0,45 | 18,054 | ,7168 | —9,2962 | ,2556 | ,6421 | 223 | +,003 | — ,05 |
| 910 | 4 | +14 50 28,30 | 18,008 | ,7259 | —9,3612 | ,2554 | ,6426 | 224 | +,014 | — ,26 |
| 911 | 3 | +13 33 17,40 | 17,941 | +9,7210 | —9,3215 | —1,2543 | +9,6475 | 232 | —,017 | — ,03 |
| 912 | 5 | + 8 21 13,48 | 17,922 | ,6937 | 9,1126 | ,2534 | ,6510 | 236 | +,009 | — ,07 |
| 913 | 4 | + 8 29 4,85 | 17,904 | ,6946 | 9,1181 | ,2529 | ,6528 | 239 | +,005 | — ,01 |
| 914 | 5 | + 4 4 54,65 | 17,890 | ,6665 | 8,7996 | ,2526 | ,6541 | 241 | +,008 | — ,08 |
| 915 | 2 | +83 34 27,99 | 17,895 | ,6955 | 9,9480 | ,2527 | ,6535 | 263 | —,069 | — ,08 |
| 916 | 3 | — 9 13 34,56 | 17,853 | +9,5502 | +9,1559 | —1,2517 | +9,6575 | 245 | —,014 | — ,04 |
| 917 | 4 | — 4 40 42,02 | 17,808 | ,5966 | +8,8621 | ,2506 | ,6617 | 252 | +,010 | — ,07 |
| 918 | 4 | —11 14 58,99 | 17,787 | ,5263 | +9,2390 | ,2501 | ,6638 | 256 | +,030 | — ,19 |
| 919 | 4 | +17 0 29,83 | 17,772 | ,7404 | —9,4133 | ,2498 | ,6649 | 259 | +,010 | + ,08 |
| 920 | 3 | +15 21 43,44 | 17,735 | ,7332 | —9,3692 | ,2488 | ,6683 | 265 | +,013 | — ,09 |
| 921 | 2 | +16 21 4,23 | 17,727 | +9,7380 | —9,3957 | —1,2486 | +9,6690 | 268 | +,017 | + ,07 |
| 922 | 4 | — 7 16 23,52 | 17,681 | ,5694 | +9,0495 | ,2475 | ,6730 | 271 | +,020 | — ,06 |
| 923 | 4 | —11 14 29,00 | 17,625 | ,5224 | +9,2343 | ,2461 | ,6779 | 278 | +,039 | — ,05 |
| 924 | 3 | +65 10 56,45 | 17,587 | ,7910 | —9,9011 | ,2452 | ,6810 | 285 | +,019 | + ,14 |
| 925 | 4 | — 8 15 28,67 | 17,502 | ,5563 | +9,0987 | ,2431 | ,6880 | 291 | +,011 | ,00 |
| 926 | 4 | —25 47 25,64 | 17,479 | +9,2504 | +9,5793 | —1,2425 | +9,6896 | 294 | +,015 | — ,10 |
| 927 | 4 | —15 24 20,43 | 17,424 | ,4579 | 9,3638 | ,2412 | ,6939 | 300 | +,001 | — ,18 |
| 928 | 4 | —18 56 14,16 | 17,396 | ,3997 | 9,4496 | ,2404 | ,6961 | 304 | +,029 | — ,06 |
| 929 | 3 | —25 52 7,51 | 17,384 | ,2405 | 9,5779 | ,2401 | ,6970 | 305 | +,001 | — ,12 |
| 930 | 3 | —11 46 56,40 | 17,367 | ,5092 | 9,2478 | ,2397 | ,6983 | 307 | +,044 | — ,09 |
| 931 | 4 | + 3 34 40,40 | 17,299 | +9,6665 | —8,7299 | —1,2380 | +9,7033 | 313 | +,009 | — ,03 |
| 932 | 3 | +11 1 50,70 | 17,287 | ,7185 | —9,2170 | ,2377 | ,7042 | 314 | +,012 | — ,21 |
| 933 | 2 | — 9 42 7,28 | 17,237 | ,5340 | +9,1618 | ,2365 | ,7078 | 5 | +,007 | — ,06 |
| 934 | 2 | + 5 10 49,55 | 17,228 | ,6794 | —8,8888 | ,2362 | ,7084 | 7 | +,005 | — ,10 |
| 935 | 1 | — 2 11 46,70 | 17,171 | ,6170 | +8,5203 | ,2348 | ,7125 | 13 | +,017 | — ,12 |
| 936 | 2 | + 8 46 58,14 | 17,141 | +9,7059 | —9,1151 | —1,2340 | +9,7146 | 18 | +,006 | — ,07 |
| 937 | 4 | + 8 39 4,17 | 17,080 | ,7059 | 9,1069 | ,2325 | ,7187 | 21 | —,005 | — ,10 |
| 938 | 2 | +52 33 29,06 | 17,013 | ,8344 | 9,8285 | ,2308 | ,7232 | 30 | +,027 | — ,03 |
| 939 | 4 | +12 5 54,54 | 16,914 | ,7292 | 9,2471 | ,2282 | ,7296 | 35 | +,012 | — ,02 |
| 940 | 4 | + 4 26 11,02 | 16,885 | ,6758 | 8,8121 | ,2275 | ,7314 | 39 | +,015 | — ,14 |
| 941 | 3 | —17 45 45,17 | 16,876 | +9,3944 | +9,4102 | —1,2273 | +9,7320 | 38 | +,002 | + ,01 |
| 942 | 4 | + 6 39 21,76 | 16,829 | ,6937 | —8,9867 | ,2260 | ,7349 | 47 | +,006 | ,00 |
| 943 | 3 | —27 3 32,73 | 16,706 | ,1303 | +9,5790 | ,2229 | ,7423 | 61 | +,002 | — ,25 |
| 944 | 3 | —26 59 46,02 | 16,678 | ,1335 | +9,5772 | ,2221 | ,7440 | 63 | —,014 | — ,08 |
| 945 | 4 | — 1 35 43,85 | 16,604 | ,6212 | +8,3686 | ,2201 | ,7485 | 74 | +,001 | — ,06 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h. m. s.* | *s.* | | | | |
| 946 | Bootis 8 | 4 | 14 16 27,70 | +2,026 | —8,9753 | —8,8067 | +0,3066 | —8,8847 |
| 947 | Hydræ 8 | 2 | 17 11,47 | 3,438 | ,7874 | ,6221 | ,5363 | +8,4311 |
| 948 | Virginis 1.0 | 2 | 18 12,77 | 3,027 | ,7394 | ,5781 | ,4874 | +6,5253 |
| 949 | ——— 7 | 4 | 20 18,77 | 2,982 | ,7394 | ,5865 | ,4745 | —7,7877 |
| 950 | Bootis 7.8 | 4 | 22 5,33 | 2,944 | ,7397 | ,5940 | ,4689 | —7,9411 |
| 951 | Virginis 8 | 3 | 22 12,10 | 3,101 | —8,7344 | —8,5893 | +0,4915 | +7,3534 |
| 952 | Centauri 8 | 3 | 24 28,92 | 3,878 | ,8872 | ,7511 | ,5886 | +8,7423 |
| 953 | Virginis 8 | 2 | 24 42,09 | 3,153 | ,7332 | ,5979 | ,4987 | +7,7678 |
| 954 | ——— 8 | 4 | 25 2,10 | 3,153 | ,7327 | ,5987 | ,4987 | +7,7626 |
| 955 | ——— 8 | 2 | 27 22,39 | 3,010 | ,7281 | ,6033 | ,4786 | —7,5893 |
| 956 | Virginis 7 | 3 | 27 32,81 | 3,194 | —8,7319 | —8,6080 | +0,5043 | +7,9222 |
| 957 | ——— 9 | 2 | 27 38,78 | 3,111 | ,7272 | ,6035 | ,4929 | +7,4579 |
| 958 | Solittarii 8 | 1 | 28 39,02 | 3,403 | ,7593 | ,6399 | ,5319 | +8,3419 |
| 959 | Virginis 8 | 3 | 30 23,43 | 3,140 | ,7242 | ,6115 | ,4969 | +7,6717 |
| 960 | ——— 9.10 | 2 | 30 24,97 | 3,225 | ,7304 | ,6177 | ,5085 | +8,0071 |
| 961 | Virginis 8 | 4 | 32 21,27 | 3,151 | —8,7218 | —8,6167 | +0,4984 | +7,7239 |
| 962 | Libræ 7 | 2 | 33 12,67 | 3,237 | ,7273 | ,6253 | ,5101 | +8,0272 |
| 963 | ——— 8 | 2 | 33 28,51 | 3,236 | ,7267 | ,6260 | ,5100 | +8,0251 |
| 964 | ——— 8 | 3 | 33 42,81 | 3,445 | ,7582 | ,6586 | ,5372 | +8,3747 |
| 965 | Virginis 8 | 4 | 35 45,13 | 3,149 | ,7167 | ,6248 | ,4982 | +7,7150 |
| 966 | Bootis 7 | 3 | 38 22,68 | 2,827 | —8,7272 | —8,6454 | +0,4513 | —8,1627 |
| 967 | Libræ 8 | 3 | 39 52,36 | 3,258 | ,7184 | ,6424 | ,5129 | +8,0520 |
| 968 | Lupi 8 | 2 | 42 51,11 | 3,634 | ,7795 | ,7150 | ,5604 | +8,5152 |
| 969 | Libræ 8 | 4 | 43 33,27 | 3,315 | ,7187 | ,6568 | ,5205 | +8,1519 |
| 970 | ——— 8 | 3 | 45 22,67 | 3,065 | ,6990 | ,6443 | ,4864 | —6,3089 |
| 971 | Solittarii 9 | 3 | 45 53,12 | 3,480 | —8,7408 | —8,6879 | +0,5416 | +8,3659 |
| 972 | Libræ 8 | 2 | 48 55,85 | 3,338 | ,7117 | ,6705 | ,5235 | +8,1702 |
| 973 | Virginis 7 | 4 | 50 20,65 | 3,137 | ,6918 | ,6559 | ,4965 | +7,5701 |
| 974 | Bootis 8 | 4 | 50 32,97 | 2,906 | ,6971 | ,6619 | ,4633 | —7,9432 |
| 975 | Libræ 7 | 4 | 53 54,36 | 3,349 | ,7034 | ,6813 | ,5249 | +8,1691 |
| 976 | Libræ 8 | 4 | 54 24,86 | 3,331 | —8,7004 | —8,6800 | +0,5226 | +8,1394 |
| 977 | ——— 8 | 2 | 54 53,65 | 3,180 | ,6857 | ,6670 | ,5024 | +7,7675 |
| 978 | ——— 8.9 | 2 | 55 39,94 | 3,306 | ,6949 | ,6792 | ,5193 | +8,0901 |
| 979 | Serpentis 8 | 3 | 55 58,95 | 3,072 | ,6805 | ,6661 | ,4874 | +6,3483 |
| 980 | Bootis 8 | 4 | 56 42,51 | 2,600 | ,7281 | ,7162 | ,4150 | —8,3801 |
| 981 | Serpentis 7 | 3 | 58 13,25 | 3,068 | —8,6773 | —8,6712 | +0,4868 | —7,4792 |
| 982 | Libræ 7.8 | 4 | 58 22,11 | 3,205 | 8,6806 | 8,6753 | 0,5058 | +7,8400 |
| 983 | ——— 8 | 4 | 59 11,45 | 3,258 | 8,6832 | 8,6809 | 0,5129 | +7,9797 |
| 984 | Ursæ Min. 8 | 3 | 59 14,39 | 0,295 | 9,1673 | 9,1645 | 9,4698 | —9,1436 |
| 985 | Serpentis 8.9 | 4 | 59 37,44 | 3,059 | 8,6738 | 8,6730 | 0,4856 | —6,6690 |
| 986 | Libræ 9 | 4 | 15 1 38,01 | 3,442 | —8,7010 | —8,7081 | +0,5367 | +8,2645 |
| 987 | ——— 7.8 | 4 | 2 14,01 | 3,279 | ,6790 | ,6883 | ,5157 | +8,0126 |
| 988 | Serpentis 7 | 4 | 3 15,50 | 3,011 | ,6675 | ,6806 | ,4787 | —7,4448 |
| 989 | Scorpii 7.8 | 2 | 3 54,64 | 3,510 | ,7071 | ,7227 | ,5453 | +8,3281 |
| 990 | Draconis 8 | 3 | 4 5,05 | 1,512 | ,9443 | ,9602 | ,1795 | —8,8740 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | s. | ″ |
| 946 | 4 | +54 16 11,78 | —16,587 | +9,8513 | —9,8272 | —1,2198 | +9,7492 | 79 | +,018 | —0,10 |
| 947 | 4 | —26 6 13,34 | 16,544 | ,1492 | +9,5604 | ,2168 | ,7515 | 78 | +,009 | + ,90 |
| 948 | 4 | — 0 20 35,75 | 16,498 | ,6345 | +7,7014 | ,2174 | ,7542 | 81 | +,033 | — ,16 |
| 949 | 4 | + 6 25 12,65 | 16,395 | ,6964 | —8,9610 | ,2147 | ,7598 | 93 | +,006 | + ,02 |
| 950 | 4 | + 9 5 16,02 | 16,304 | ,7168 | —9,1086 | ,2128 | ,7647 | 99 | +,016 | — ,04 |
| 951 | 4 | — 2 22 27,68 | 16,297 | +9,6117 | +8,5291 | —1,2121 | +9,7650 | 100 | +,012 | + ,08 |
| 952 | 4 | —45 44 10,94 | 16,181 | — ,0792 | +9,7621 | ,2090 | ,7709 | 106 | +,006 | + ,02 |
| 953 | 4 | — 6 12 32,27 | 16,171 | + ,5670 | +8,9413 | ,2087 | ,7709 | 108 | +,012 | — ,12 |
| 954 | 4 | — 6 8 39,31 | 16,153 | ,5659 | +8,9362 | ,2083 | ,7723 | 111 | +,010 | — ,13 |
| 955 | 4 | + 4 11 19,50 | 16,032 | ,6776 | —8,7644 | ,2050 | ,7783 | 120 | +,020 | — ,13 |
| 956 | 4 | — 8 53 26,38 | 16,021 | +9,5276 | +9,0930 | —1,2047 | +9,7788 | 121 | +,004 | — ,04 |
| 957 | 4 | — 3 3 35,46 | 16,017 | ,6031 | +8,6333 | ,2046 | ,7790 | 122 | +,006 | + ,07 |
| 958 | 4 | —22 26 50,27 | 15,962 | ,2279 | +9,4836 | ,2031 | ,7816 | 129 | —,050 | + ,02 |
| 959 | 5 | — 5 4 25,72 | 15,869 | ,5775 | +8,8460 | ,2006 | ,7859 | 139 | +,014 | — ,16 |
| 960 | 4 | —10 52 50,33 | 15,869 | ,4928 | +9,1753 | ,2006 | ,7859 | 138 | +,029 | — ,08 |
| 961 | 4 | — 5 45 2,02 | 15,766 | +9,5682 | +8,8978 | —1,1977 | +9,7906 | 144 | +,009 | — ,08 |
| 962 | 4 | —11 31 43,93 | 15,722 | ,4786 | +9,1954 | ,1965 | ,7925 | 146 | +,029 | — ,03 |
| 963 | 4 | —11 26 53,08 | 15,704 | ,4800 | +9,1925 | ,1960 | ,7933 | 151 | —,005 | — ,04 |
| 964 | 3 | —24 24 18,40 | 15,690 | ,1399 | +9,5100 | ,1956 | ,7940 | 153 | +,003 | — ,07 |
| 965 | 4 | — 5 41 21,51 | 15,580 | ,5670 | +8,8889 | ,1926 | ,7987 | 162 | +,020 | — ,02 |
| 966 | 4 | +15 49 29,94 | 15,437 | +9,7716 | —9,3220 | —1,1885 | +9,8047 | 178 | +,018 | — ,03 |
| 967 | 3 | —12 25 47,93 | 15,350 | 9,4564 | +9,2178 | ,1861 | ,8082 | 181 | +,002 | — ,02 |
| 968 | 4 | —32 56 50,24 | 15,180 | 7,9031 | +9,6150 | ,1813 | ,8149 | 192 | ,000 | — ,02 |
| 969 | 3 | —15 43 10,02 | 15,142 | 9,3801 | +9,3114 | ,1802 | ,8164 | 195 | +,005 | — ,09 |
| 970 | 3 | + 0 14 54,15 | 15,034 | 9,6395 | —7,4850 | ,1771 | ,8204 | 205 | +,001 | — ,18 |
| 971 | 4 | —24 56 38,94 | 15,007 | +9,0569 | +9,4995 | —1,1763 | +9,8214 | 208 | +,019 | — ,17 |
| 972 | 4 | —16 42 1,05 | 14,828 | ,3483 | +9,3276 | ,1711 | ,8279 | 223 | —,004 | — ,07 |
| 973 | 4 | — 4 19 24,08 | 14,746 | ,5809 | +8,7450 | ,1687 | ,8308 | 229 | —,003 | — ,16 |
| 974 | 5 | +10 9 32,83 | 14,737 | ,7380 | —9,1124 | ,1683 | ,8312 | 230 | +,003 | — ,18 |
| 975 | 4 | —16 58 50,76 | 14,531 | ,3304 | +9,3258 | ,1623 | ,8381 | 246 | +,013 | — ,09 |
| 976 | 4 | —15 56 32,60 | 14,503 | +9,3747 | +9,2985 | —1,1614 | +9,8390 | 252 | +,016 | — ,03 |
| 977 | 4 | — 6 55 22,24 | 14,474 | ,5403 | +8,9404 | ,1606 | ,8399 | 254 | +,019 | — ,02 |
| 978 | 4 | —14 21 4,80 | 14,426 | ,3944 | +9,2522 | ,1591 | ,8415 | 256 | +,007 | — ,07 |
| 979 | 4 | — 0 15 41,64 | 14,406 | ,6345 | +7,5244 | ,1585 | ,8422 | 257 | ,000 | — ,27 |
| 980 | 4 | +26 41 8,13 | 14,365 | ,8457 | —9,5074 | ,1573 | ,8435 | 264 | +,006 | + ,02 |
| 981 | 4 | + 3 38 50,26 | 14,272 | +9,6785 | —8,6544 | —1,1545 | +9,8464 | 271 | +,016 | — ,10 |
| 982 | 4 | — 8 17 23,00 | 14,259 | ,5172 | +9,0115 | ,1541 | ,8468 | 272 | +,004 | + ,01 |
| 983 | 3 | —11 24 46,25 | 14,210 | ,4563 | +9,1471 | ,1526 | ,8483 | 276 | —,001 | — ,05 |
| 984 | 3 | +71 15 30,31 | 14,217 | ,9063 | —9,8271 | ,1528 | ,8481 | 285 | ,000 | + ,17 |
| 985 | 4 | + 0 34 41,14 | 14,185 | ,6444 | —7,8451 | ,1518 | ,8491 | 278 | +,007 | — ,07 |
| 986 | 4 | —21 26 52,09 | 14,057 | +9,1553 | +9,4093 | —1,1479 | +9,8530 | 289 | ,000 | — ,05 |
| 987 | 3 | —12 25 37,35 | 14,019 | 9,4314 | +9,1784 | ,1467 | ,8541 | 1 | +,013 | + ,01 |
| 988 | 4 | + 3 27 14,30 | 14,021 | 9,6785 | —8,6201 | ,1448 | ,8559 | 4 | +,009 | — ,01 |
| 989 | 4 | —24 41 9,25 | 13,912 | 8,9685 | +9,4625 | ,1435 | ,8572 | 5 | —,019 | — ,19 |
| 990 | 4 | +58 17 10,92 | 13,910 | 9,9248 | —9,7710 | ,1433 | ,8573 | 12 | +,009 | — ,01 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 991 | Scorpii 8 | 3 | 15 4 17,96 | +3,492 | —8,7032 | —8,7203 | +0,5431 | +8,3088 |
| 992 | 2 Libræ 9.10 | 4 | 5 14,86 | 3,380 | ,6843 | ,7048 | ,5289 | +8,1704 |
| 993 | ——— 8 | 4 | 5 56,57 | 3,114 | ,6620 | ,6852 | ,4933 | +7,3456 |
| 994 | Serpentis 8 | 4 | 9 15,08 | 3,074 | ,6547 | ,6906 | ,4877 | +6,4986 |
| 995 | Lupi *var.* | 4 | 10 27,46 | 4,034 | ,7977 | ,8384 | ,6057 | +8,6422 |
| 996 | Libræ 8.9 | 4 | 11 36,19 | 3,251 | —8,6571 | —8,7019 | +0,5120 | +7,9157 |
| 997 | ——— 8 | 4 | 11 49,04 | 3,330 | ,6641 | ,7096 | ,5224 | +8,0714 |
| 998 | ——— 8 | 4 | 12 26,93 | 3,173 | ,6506 | ,6984 | ,5015 | +7,6722 |
| 999 | Cor. Bor. 8.9 | 2 | 12 47,20 | 2,489 | ,7106 | ,7597 | ,3960 | —8,4115 |
| 1000 | Libræ 8 | 3 | 12 51,81 | 3,177 | ,6499 | ,6993 | ,5020 | +7,6856 |
| 1001 | Cor. Bor. 8.9 | 2 | 13 32,82 | 2,484 | —8,7097 | —8,7617 | +0,3951 | —8,4128 |
| 1002 | Libræ 8 | 3 | 13 42,86 | 3,246 | ,6522 | ,7049 | ,5113 | +7,8947 |
| 1003 | Serpentis 8 | 3 | 15 57,03 | 3,068 | ,6406 | ,7019 | ,4869 | —5,4053 |
| 1004 | ——— 8 | 4 | 16 3,34 | 2,899 | ,6464 | ,7080 | ,4622 | —7,8632 |
| 1005 | Libræ 9.10 | 3 | 16 11,26 | 3,224 | ,6451 | ,7075 | ,5084 | +7,8298 |
| 1006 | Serpentis 8 | 3 | 16 21,65 | 2,896 | —8,6459 | —8,7088 | +0,4618 | —7,8710 |
| 1007 | Draconis 8 | 2 | 16 31,98 | 1,651 | ,8756 | ,9387 | ,2193 | —8,7863 |
| 1008 | Libræ 8 | 4 | 16 37,22 | 3,453 | ,6683 | ,7324 | ,5382 | +8,2190 |
| 1009 | Bootis 8 | 2 | 18 18,89 | 2,275 | ,7384 | ,8087 | ,3570 | —8,5269 |
| 1010 | Libræ 8.9 | 3 | 18 28,34 | 3,162 | ,6368 | ,7079 | ,4999 | +7,5982 |
| 1011 | Libræ 7.8 | 4 | 18 49,41 | 3,452 | —8,6631 | —8,7354 | +0,5381 | +8,2104 |
| 1012 | ——— 8 | 3 | 19 16,13 | 3,264 | ,6410 | ,7152 | ,5137 | +7,9171 |
| 1013 | ——— *var.* | 4 | 19 42,40 | 3,165 | ,6342 | ,7099 | ,5004 | +7,6119 |
| 1014 | Cor. Bor. 6.7 | 2 | 19 52,30 | 2,352 | ,7181 | ,7943 | ,3714 | —8,4756 |
| 1015 | Serpentis 8.9 | 2 | 21 19,36 | 3,027 | ,6290 | ,7108 | ,4810 | —7,2356 |
| 1016 | Libræ 8.9 | 5 | 21 41,65 | 3,409 | —8,6501 | —8,7337 | +0,5326 | +8,1466 |
| 1017 | ——— 8 | 1 | 21 53,25 | 3,350 | ,6429 | ,7270 | ,5250 | +8,0643 |
| 1018 | Scorpii 8 | 3 | 22 12,79 | 3,609 | ,6789 | ,7646 | ,5574 | +8,3450 |
| 1019 | Libræ 8 | 4 | 23 10,90 | 3,422 | ,6481 | ,7374 | ,5343 | +8,1574 |
| 1020 | ——— 8 | 3 | 24 15,14 | 3,243 | ,6279 | ,7211 | ,5109 | +7,8485 |
| 1021 | Serpentis 7.8 | 3 | 25 5,31 | 2,998 | —8,6208 | —8,7173 | +0,4768 | —7,4497 |
| 1022 | Libræ 8.9 | 3 | 29 5,16 | 3,323 | ,6224 | ,7346 | ,5215 | +7,9927 |
| 1023 | Lupi | | 29 | 4,094 | ,7524 | ,8669 | ,6121 | +8,5948 |
| 1024 | Serpentis 7.8 | 4 | 30 3,07 | 2,742 | ,6274 | ,7432 | ,4381 | —8,0950 |
| 1025 | Libræ 7.8 | 3 | 30 41,70 | 3,324 | ,6184 | ,7369 | ,5215 | +7,9877 |
| 1026 | Libræ 8 | 3 | 32 9,02 | 3,324 | —8,6146 | —8,7388 | +0,5215 | +7,9812 |
| 1027 | Scorpii 7.8 | 3 | 33 23,67 | 3,566 | ,6417 | 8,7709 | 0,5522 | +8,2660 |
| 1028 | Serpentis 8 | 5 | 35 31,09 | 3,013 | ,5944 | 8,7321 | 0,4790 | —7,3059 |
| 1029 | Draconis 8 | 4 | 36 49,92 | 0,597 | ,9870 | 9,1292 | 9,7760 | —8,9488 |
| 1030 | 29 Serpentis 7.8 | 4 | 38 51,45 | 2,754 | ,6024 | 8,7532 | 0,4399 | —8,0436 |
| 1031 | 31ν Serpentis 7 | 4 | 39 40,54 | 2,782 | —8,5974 | —8,7513 | +0,4444 | —7,9998 |
| 1032 | ξ² Lupi 6.7 | | 46 | 3,807 | ,6425 | ,8247 | ,5806 | +8,3842 |
| 1033 | Serpentis *var.* | 2 | 46 54,69 | 2,890 | ,5682 | ,7518 | ,4609 | —7,7657 |
| 1034 | ——— 8 | 5 | 49 50,06 | 2,710 | ,5749 | ,7707 | ,4330 | —8,0555 |
| 1035 | Lupi 8 | 3 | 53 31,63 | 3,865 | ,6292 | ,8411 | ,5871 | +8,3878 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 991 | 4 | —23 45 24,70 | —13,890 | +9,0253 | +9,4463 | —1,1427 | +9,8579 | 8 | +,007 | +0,01 |
| 992 | 1 | —17 49 10,56 | 13,834 | +9,2810 | +9,3251 | ,1410 | ,8595 | 15 | +,005 | — ,10 |
| 993 | 4 | — 2 44 49,85 | 13,788 | +9,6010 | +8,5212 | ,1395 | ,8608 | 17 | +,009 | — ,04 |
| 994 | 4 | — 0 22 45,78 | 13,575 | +9,6325 | +7,6747 | ,1327 | ,8667 | 28 | +,010 | — ,13 |
| 995 | 4 | —44 20 14,88 | 13,493 | —9,3139 | +9,7727 | ,1301 | ,8689 | 30 | —,012 | — ,06 |
| 996 | 4 | —10 26 3,79 | 13,424 | +9,4654 | +9,0845 | —1,1279 | +9,8707 | 38 | +,016 | — ,17 |
| 997 | 4 | —14 46 32,71 | 13,422 | 9,3617 | +9,2328 | ,1275 | ,8711 | 40 | +,001 | — ,17 |
| 998 | 5 | — 6 0 59,15 | 13,373 | 9,5478 | +8,8459 | ,1262 | ,8721 | 43 | +,009 | — ,05 |
| 999 | 4 | +30 9 55,75 | 13,350 | 9,8751 | —9,5245 | ,1255 | ,8727 | 46 | —,006 | — ,15 |
| 1000 | 4 | — 6 13 46,43 | 13,347 | 9,5453 | +8,8591 | ,1254 | ,8728 | 45 | +,017 | — ,06 |
| 1001 | 4 | +30 20 18,76 | 13,303 | +9,8768 | —9,5251 | —1,1239 | +9,8739 | 51 | +,003 | — ,13 |
| 1002 | 3 | —10 3 36,68 | 13,290 | 9,4713 | +9,0641 | ,1235 | ,8742 | 48 | +,002 | — ,32 |
| 1003 | 3 | + 0 2 26,75 | 13,141 | 9,6375 | —6,5814 | ,1186 | ,8780 | 60 | +,020 | — ,20 |
| 1004 | 4 | + 9 29 29,16 | 13,136 | 9,7419 | —9,0333 | ,1185 | ,8781 | 62 | +,006 | — ,11 |
| 1005 | 4 | — 8 47 26,90 | 13,123 | 9,4955 | +9,0007 | ,1180 | ,8784 | 61 | +,011 | — ,08 |
| 1006 | 4 | + 9 40 28,71 | 13,114 | +9,7443 | —9,0409 | —1,1177 | +9,8786 | 66 | +,011 | — ,16 |
| 1007 | 3 | +54 31 2,10 | 13,110 | 9,9385 | —9,7263 | ,1176 | ,8788 | 68 | +,028 | — ,11 |
| 1008 | 3 | —20 47 52,83 | 13,092 | 9,1367 | +9,3657 | ,1170 | ,8792 | 65 | +,012 | — ,04 |
| 1009 | 2 | +37 55 32,23 | 12,986 | 9,9085 | —9,6000 | ,1135 | ,8818 | 74 | —,008 | + ,01 |
| 1010 | 3 | — 5 14 22,18 | 12,973 | 9,5575 | +8,7725 | ,1130 | ,8821 | 70 | +,005 | — ,18 |
| 1011 | 4 | —20 37 59,37 | 12,950 | +9,1367 | +9,3577 | —1,1123 | +9,8826 | 71 | —,027 | — ,01 |
| 1012 | 4 | —10 52 24,13 | 12,919 | 9,4487 | +9,0853 | ,1112 | ,8834 | 77 | +,009 | — ,08 |
| 1013 | 4 | — 5 25 44,66 | 12,922 | 9,5563 | +8,7860 | ,1103 | ,8840 | 79 | +,008 | — ,11 |
| 1014 | 4 | +34 54 34,75 | 12,885 | 9,8998 | —9,5656 | ,1100 | ,8842 | 81 | +,014 | — ,14 |
| 1015 | 4 | + 2 19 39,54 | 12,785 | 9,6674 | —8,4113 | ,1067 | ,8866 | 85 | +,033 | — ,10 |
| 1016 | 4 | —18 16 2,13 | 12,754 | +9,2304 | +9,3002 | —1,1056 | +9,8873 | 87 | —,017 | + ,01 |
| 1017 | 4 | —15 16 45,43 | 12,744 | 9,3324 | +9,2247 | ,1053 | ,8875 | 88 | +,007 | — ,13 |
| 1018 | 4 | —27 36 1,52 | 12,717 | 8,4314 | +9,4685 | ,1044 | ,8881 | 90 | +,017 | — ,06 |
| 1019 | 4 | —18 50 20,13 | 12,654 | 9,2041 | +9,3096 | ,1022 | ,8896 | 94 | +,017 | — ,01 |
| 1020 | 4 | — 9 33 1,32 | 12,587 | 9,4742 | +9,0185 | ,0999 | ,8911 | 101 | +,015 | — ,14 |
| 1021 | 4 | + 3 52 56,77 | 12,527 | +9,6866 | —8,6248 | —1,0979 | +9,8924 | 107 | +,013 | — ,10 |
| 1022 | 1 | —13 33 17,40 | 12,253 | +9,3729 | +9,1565 | ,0882 | ,8984 | 127 | +,010 | + ,05 |
| 1023 | | —44 4 | 12,211 | —9,3802 | +9,6272 | ,0867 | ,8993 | 129 | | |
| 1024 | 5 | +17 4 33,86 | 12,188 | +9,8116 | —9,2515 | ,0859 | ,8997 | 137 | +,005 | ,00 |
| 1025 | 5 | —13 30 49,22 | 12,141 | +9,3711 | +9,1515 | ,0843 | ,9007 | 139 | ,000 | + ,02 |
| 1026 | 4 | —13 26 4,22 | 12,039 | +9,3729 | +9,1452 | —1,0806 | +9,9028 | 144 | +,015 | + ,02 |
| 1027 | 3 | —24 53 10,35 | 11,950 | 8,7404 | +9,3997 | ,0774 | ,9046 | 149 | +,009 | — ,11 |
| 1028 | 4 | + 2 57 54,27 | 11,800 | 9,6767 | —8,4814 | ,0719 | ,9076 | 159 | +,005 | — ,12 |
| 1029 | 4 | +66 19 33,38 | 11,719 | 9,9624 | —9,7287 | ,0689 | ,9091 | 168 | +,022 | + ,03 |
| 1030 | 4 | +16 2 32,63 | 11,568 | 9,8082 | —9,2025 | ,0632 | ,9120 | 171 | +,011 | — ,05 |
| 1031 | 3 | +14 37 30,26 | 11,511 | +9,7973 | —9,1616 | —1,0611 | +9,9131 | 173 | +,005 | — ,11 |
| 1032 | 3 | —33 28 34,12 | 11,009 | —8,9956 | +9,4815 | ,0417 | ,9220 | 205 | | + ,01 |
| 1033 | 4 | + 9 4 18,86 | 10,985 | +9,7490 | —8,9363 | ,0408 | ,9224 | 209 | +,023 | + ,02 |
| 1034 | 4 | +17 39 43,95 | 10,769 | +9,8254 | —9,2107 | ,0322 | ,9260 | 223 | +,001 | |
| 1035 | 4 | —34 59 14,18 | 10,487 | —9,1271 | +9,4773 | ,0207 | ,9305 | 236 | ,000 | — ,22 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 1036 | Libræ 8 | 4 | 15 53 51,21 | +3,229 | —8,5463 | —8,7590 | +0,5091 | +7,6925 |
| 1037 | ——— 8 | 3 | 54 26,06 | 3,229 | ,5444 | ,7596 | ,5091 | +7,6898 |
| 1038 | Scorpii 8.9 | 3 | 55 20,47 | 3,494 | ,5655 | ,7847 | ,5433 | +8,1088 |
| 1039 | ——— 8 | 4 | 55 36,74 | 3,442 | ,5584 | ,7788 | ,5368 | +8,0507 |
| 1040 | Draconis 8 | 4 | 56 25,10 | 1,433 | ,7755 | ,9987 | ,1562 | —8,6888 |
| 1041 | Scorpii 8 | 4 | 56 55,02 | 3,660 | —8,5834 | —8,8095 | +0,5635 | +8,2446 |
| 1042 | 1 Lupi 7.8 | 5 | 57 36,67 | 3,989 | ,6373 | ,8665 | ,6009 | +8,4330 |
| 1043 | Herculis 8 | 1 | 58 18,72 | 2,949 | ,5301 | ,7620 | ,4697 | —7,5384 |
| 1044 | Scorpii 8 | 4 | 59 33,67 | 3,457 | ,5467 | ,7844 | ,5387 | +8,0497 |
| 1045 | ——— 8.9 | 3 | 59 50,14 | 3,468 | ,5471 | ,7859 | ,5401 | +8,0604 |
| 1046 | Serpentis 8 | 4 | 16 0 36,07 | 2,949 | —8,5227 | —8,7645 | +0,4697 | —7,5298 |
| 1047 | $\kappa^2$ Herculis 8 | 3 | 0 40,96 | 2,702 | ,5408 | ,7828 | ,4317 | —8,0185 |
| 1048 | Scorpii 9 | 4 | 2 44,52 | 3,681 | ,5658 | ,8176 | ,5660 | +8,2334 |
| 1049 | ——— 8 | 3 | 3 12,55 | 3,472 | ,5358 | ,7897 | ,5406 | +8,0503 |
| 1050 | Serpentis 8.9 | 4 | 3 49,22 | 2,680 | ,5321 | ,7884 | ,4281 | —8,0302 |
| 1051 | Ophiuchi 8 | 2 | 5 10,62 | 3,541 | —8,5374 | —8,7999 | +0,5491 | +8,1103 |
| 1052 | Herculis 8 | 4 | 5 16,21 | 2,935 | ,5072 | ,7700 | ,4676 | —7,5577 |
| 1053 | ——— 7 | 4 | 6 10,21 | 2,938 | ,5040 | ,7708 | ,4680 | —7,5455 |
| 1054 | Scorpii 8 | 4 | 9 10,29 | 3,766 | ,5552 | ,8360 | ,5759 | +8,2609 |
| 1055 | Regulæ 7 | 1 | 9 28,50 | 4,029 | ,5990 | ,8813 | ,6052 | +8,3982 |
| 1056 | Herculis 8 | 4 | 9 41,16 | 2,654 | —8,5138 | —8,7967 | +0,4239 | —8,0319 |
| 1057 | Scorpii *seq.* 8 | 2 | 10 30,74 | 3,492 | ,5117 | ,7987 | ,5431 | +8,0388 |
| 1058 | ——— *præc.* 8 | 1 | 10 55,11 | 3,494 | ,5104 | ,7992 | ,5433 | +8,0385 |
| 1059 | ——— *seq.* 8.9 | 1 | 10 55,69 | 3,494 | ,5104 | ,7992 | ,5433 | +8,0385 |
| 1060 | Herculis 8.9 | 3 | 11 19,82 | 2,704 | ,5024 | ,7927 | ,4320 | —7,9687 |
| 1061 | Herculis 7.8 | 3 | 11 22,08 | 2,944 | —8,4850 | —8,7757 | +0,4689 | —7,4994 |
| 1062 | ——— 8.9 | 4 | 12 44,97 | 2,807 | ,4876 | ,7848 | ,4482 | —7,8172 |
| 1063 | Regulæ 7 | 4 | 12 56,22 | 4,029 | ,5848 | ,8833 | ,6052 | +8,3820 |
| 1064 | Serpentis 8 | 4 | 14 1,83 | 3,000 | ,4734 | ,7766 | ,4771 | —7,2291 |
| 1065 | ——— 8 | 4 | 14 7,32 | 2,996 | ,4730 | ,7768 | ,4765 | —7,2545 |
| 1066 | Herculis 8 | 3 | 14 19,12 | 2,773 | —8,4844 | —8,7889 | +0,4429 | —7,8630 |
| 1067 | Scorpii 8.9 | 3 | 15 24,28 | 3,735 | ,5253 | ,8355 | ,5721 | +8,2111 |
| 1068 | ——— 8 | 4 | 15 35,04 | 3,580 | ,5028 | ,8136 | ,5539 | +8,0961 |
| 1069 | ——— 9 | 4 | 15 48,41 | 3,659 | ,5128 | ,8246 | ,5634 | +8,1578 |
| 1070 | Ophiuchi 8 | | 16 | 3,274 | ,4686 | ,7846 | ,5151 | +7,6959 |
| 1071 | Serpentis 7.8 | 4 | 19 19,15 | 3,000 | —8,4524 | —8,7815 | +0,4771 | —7,2037 |
| 1072 | Scorpii 8.9 | 4 | 20 2,53 | 3,627 | ,4908 | ,8234 | ,5595 | +8,1135 |
| 1073 | Regulæ 8.9 | 4 | 23 4,91 | 3,928 | ,5237 | ,8718 | ,5942 | +8,2845 |
| 1074 | Ophiuchi 9 | 4 | 24 35,42 | 3,016 | ,4302 | ,7857 | ,4794 | —7,0581 |
| 1075 | Herculis 8.9 | 4 | 27 49,34 | 2,569 | ,4488 | ,8210 | ,4098 | —8,0236 |
| 1076 | Ophiuchi 8 | 1 | 28 3,26 | 3,197 | —8,4169 | —8,7905 | +0,5047 | +7,4338 |
| 1077 | Herculis 8 | 4 | 28 48,71 | 2,673 | ,4324 | ,8100 | ,4270 | —7,9177 |
| 1078 | Ophiuchi 8.9 | 3 | 30 45,54 | 3,224 | ,4059 | ,7937 | ,5084 | +7,5039 |
| 1079 | Herculis 8 | 3 | 31 10,01 | 2,427 | ,4521 | ,8421 | ,3851 | —8,1146 |
| 1080 | ——— 8.9 | 4 | 31 44,24 | 2,774 | ,4100 | ,8029 | ,4431 | —7,7734 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1036 | 5 | — 8 1 49,29 | —10,472 | +9,4928 | +8,8643 | —1,0200 | +9,9308 | 240 | +,006 | — ,01 |
| 1037 | 2 | — 8 1 2,00 | 10,427 | +9,4928 | +8,8616 | ,0182 | ,9315 | 243 | +,011 | ,00 |
| 1038 | 4 | —20 26 36,12 | 10,357 | +9,0334 | +9,2566 | ,0153 | ,9325 | 244 | +,011 | — ,21 |
| 1039 | 4 | —18 4 53,22 | 10,337 | +9,1673 | +9,2048 | ,0144 | ,9328 | 249 | +,001 | + ,01 |
| 1040 | 4 | +54 58 55,53 | 10,288 | +9,9782 | —9,6236 | ,0123 | ,9356 | 262 | +,002 | — ,12 |
| 1041 | 1 | —27 16 4,24 | 10,237 | —7,9031 | +9,3695 | —1,0102 | +9,9343 | 257 | +,004 | — ,02 |
| 1042 | 2 | —38 39 23,51 | 10,182 | —9,2988 | +9,5016 | ,0079 | ,9352 | 260 | +,011 | + ,09 |
| 1043 | 3 | + 5 51 37,02 | 10,137 | +9,7152 | —8,7122 | ,0059 | ,9358 | 269 | +,008 | — ,07 |
| 1044 | 4 | —18 33 6,01 | 10,036 | +9,1303 | +9,2026 | ,0016 | ,9373 | 273 | +,009 | + ,02 |
| 1045 | 3 | —19 0 51,87 | 10,017 | +9,1072 | +9 2121 | ,0007 | ,9376 | 275 | +,015 | + ,16 |
| 1046 | 4 | + 5 50 46,53 | 9,966 | +9,7160 | —8,7036 | —0,9985 | +9,9383 | 281 | +,017 | — ,06 |
| 1047 | 3 | +17 29 53,33 | 9,961 | +9,8280 | —9,1741 | ,9983 | ,9384 | 285 | +,001 | — ,03 |
| 1048 | 4 | —27 42 9,40 | 9,794 | —8,3424 | +9,3565 | ,9909 | ,9408 | 5 | +,005 | + ,03 |
| 1049 | 3 | —19 4 18,61 | 9,758 | +9,0934 | +9,2018 | ,9893 | ,9412 | 7 | +,004 | — ,01 |
| 1050 | 5 | +18 21 28,23 | 9,717 | +9,8370 | —9,1836 | ,9875 | ,9418 | 11 | —,003 | + ,05 |
| 1051 | 4 | —21 57 27,85 | 9,610 | +8,8692 | +9,2537 | —0,9827 | +9,9433 | 17 | +,001 | — ,12 |
| 1052 | 5 | + 6 27 46,91 | 9,605 | +9,7243 | —8,7310 | ,9825 | ,9433 | 20 | +,013 | + ,01 |
| 1053 | 4 | + 6 19 29,10 | 9,538 | +9,7235 | —8,7190 | ,9795 | ,9442 | 24 | +,018 | + ,03 |
| 1054 | 3 | —30 29 47,94 | 9,301 | —8,8808 | +9,3623 | ,9685 | ,9473 | 35 | ,000 | — ,04 |
| 1055 | 4 | —39 1 24,20 | 9,276 | —9,3463 | +9,4645 | ,9673 | ,9477 | 37 | +,005 | — ,07 |
| 1056 | 4 | +19 15 20,32 | 9,265 | +9,8463 | —9,1830 | —0,9669 | +9,9478 | 43 | +,017 | — ,07 |
| 1057 | 4 | —19 39 10,32 | 9,198 | +9,0414 | +9,1888 | ,9637 | ,9486 | 45 | ,000 | — ,10 |
| 1058 | 4 | —19 42 55,50 | 9,167 | +9,0334 | +9,1883 | ,9622 | ,9490 | 48 | ,000 | — ,08 |
| 1059 | 3 | —19 42 43,27 | 9,167 | +9,0334 | +9,1883 | ,9622 | ,9490 | 49 | —,003 | — ,11 |
| 1060 | 5 | +17 1 16,14 | 9,141 | +9,8299 | —9,1254 | ,9610 | ,9494 | 53 | —,007 | + ,06 |
| 1061 | 4 | + 5 56 31,76 | 9,136 | +9,7193 | —8,6732 | —0,9607 | +9,9494 | 52 | +,012 | — ,05 |
| 1062 | 4 | +12 20 18,86 | 9,026 | +9,7882 | —8,9831 | ,9555 | ,9510 | 57 | +,008 | — ,07 |
| 1063 | 5 | —38 48 3,00 | 9,006 | —9,3483 | +9,4497 | ,9545 | ,9510 | 55 | +,017 | — ,06 |
| 1064 | 4 | + 3 16 7,13 | 8,927 | +9,6848 | —8,4045 | ,9507 | ,9520 | 62 | +,003 | — ,05 |
| 1065 | 4 | + 3 28 38,75 | 8,917 | +9,6875 | —8,4298 | ,9502 | ,9521 | 63 | +,017 | — ,15 |
| 1066 | 4 | +13 51 5,82 | 8,907 | +9,8028 | —9,0263 | —0,9597 | +9,9522 | 65 | +,008 | — ,09 |
| 1067 | 4 | —29 0 52,38 | 8,813 | —8,7482 | +9,3289 | ,9451 | ,9533 | 67 | +,001 | + ,04 |
| 1068 | 2 | —23 4 25,95 | 8,802 | +8,6628 | +9,2360 | ,9446 | ,9535 | 68 | +,004 | — ,02 |
| 1069 | 4 | —26 11 2,40 | 8,786 | —7,9031 | +9,2868 | ,9438 | ,9537 | 70 | +,013 | — ,04 |
| 1070 | | — 9 41 | 8,718 | +9,4409 | +8,8658 | ,9404 | ,9544 | 76 | | |
| 1071 | 4 | + 3 14 42,67 | 8,508 | +9,6848 | —8,3791 | —0,9298 | +9,9569 | 85 | +,008 | — ,03 |
| 1072 | 4 | —24 46 45,40 | 8,449 | +8,1461 | +9,2475 | ,9268 | ,9575 | 87 | +,015 | — ,16 |
| 1073 | 4 | —35 11 15,49 | 8,206 | —9,2355 | +9,3730 | ,9141 | ,9602 | 99 | —,007 | + ,01 |
| 1074 | 4 | + 2 26 35,23 | 8,088 | +9,6739 | —8,2338 | ,9079 | ,9614 | 109 | +,010 | — ,13 |
| 1075 | 4 | +22 5 10,37 | 7,831 | +9,8739 | —9,1667 | ,9938 | ,9640 | 124 | +,005 | + ,23 |
| 1076 | 3 | — 5 57 14,05 | 7,810 | +9,5263 | +8,6075 | —0,8926 | +9,9642 | 122 | —,002 | — ,12 |
| 1077 | 4 | +17 48 43,32 | 7,747 | +9,8426 | —9,0725 | ,8891 | ,9648 | 130 | +,004 | — ,08 |
| 1078 | 4 | — 7 10 53,89 | 7,595 | +9,4983 | +8,6766 | ,8805 | ,9663 | 138 | +,010 | — ,01 |
| 1079 | 4 | +27 22 43,24 | 7,562 | +9,9096 | —9,2391 | ,8786 | ,9666 | 141 | +,012 | — ,03 |
| 1080 | 3 | +13 22 8,70 | 7,519 | +9,8035 | —8,9376 | ,8762 | ,9671 | 144 | +,014 | + ,04 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 1081 | Serpentis 8.9 | 3 | 16 32 34,98 | +3,122 | —8,3944 | —8,7920 | +0,4944 | +7,0370 |
| 1082 | Herculis 7.8 | 4 | 34 20,31 | 2,634 | ,4107 | ,8179 | ,4206 | —7,9284 |
| 1083 | Ophiuchi 8.9 | 4 | 35 45,37 | 2,974 | ,3798 | ,7952 | ,4733 | —7,2581 |
| 1084 | Scorpii 8 | 4 | 36 55,62 | 3,892 | ,4510 | ,8733 | ,5902 | +8,1917 |
| 1085 | Nebules 7 | 4 | 37 13,77 | 2,132 | ,4682 | ,8916 | ,3288 | —8,2458 |
| 1086 | Scorpii | | 39 | 4,180 | —8,4856 | —8,9225 | +0,6212 | +8,3073 |
| 1087 | ——— 9 | 3 | 41 18,67 | 4,182 | ,4754 | ,9235 | ,6214 | +8,2967 |
| 1088 | Herculis 7.8 | 2 | 42 22,66 | 2,881 | ,3493 | ,8033 | ,4595 | —7,5164 |
| 1089 | Scorpii 8 | 4 | 42 28,25 | 4,193 | ,4705 | ,9257 | ,6225 | +8,2936 |
| 1090 | ——— | | 42 | 4,187 | ,4675 | ,9249 | ,6219 | +8,2892 |
| 1091 | Draconis 9 | 3 | 42 55,40 | 0,974 | —8,6293 | —9,0862 | +9,9886 | —8,5621 |
| 1092 | Scorpii 7.8 | 2 | 43 31,88 | 4,198 | ,4653 | 8,9271 | 9,6230 | +8,2893 |
| 1093 | ——— 7.8 | 3 | 43 45,45 | 3,895 | ,4139 | 8,8770 | 0,5905 | +8,1524 |
| 1094 | Draconis 7.8 | 3 | 45 4,42 | 1,214 | ,5792 | 9,0492 | 0,0842 | —8,4961 |
| 1095 | Scorpii 7 | 3 | 45 12,22 | 4,153 | ,4479 | 8,9200 | 0,6184 | +8,2612 |
| 1096 | Scorpii 7.8 | 2 | 45 15,90 | 3,898 | —8,4057 | —8,8782 | +0,5908 | +8,1447 |
| 1097 | Serpentis 7.8 | 3 | 45 48,60 | 3,154 | ,3264 | 8,8019 | ,4989 | +7,1590 |
| 1098 | Ophiuchi 8 | 4 | 47 2,84 | 3,198 | ,3204 | 8,8039 | ,5049 | +7,3287 |
| 1099 | Draconis 8 | 4 | 47 16,96 | 1,497 | ,5194 | 9,0033 | ,1752 | —8,4102 |
| 1100 | Scorpii 8 | 1 | 47 47,58 | 4,039 | ,4136 | 8,9019 | ,6063 | +8,1968 |
| 1101 | Ophiuchi 7.8 | 3 | 49 22,35 | 3,400 | —8,3187 | —8,8174 | +0,5315 | +7,7207 |
| 1102 | ——— 9 | 3 | 49 35,71 | 3,422 | ,3194 | 8,8194 | 0,5343 | +7,7477 |
| 1103 | ——— 9 | 3 | 50 42,20 | 3,482 | ,3181 | 8,8256 | 0,5418 | +7,8073 |
| 1104 | Draconis 8 | 2 | 50 44,56 | 0,273 | ,6793 | 9,1855 | 9,4362 | —8,6382 |
| 1105 | Scorpii 9 | 3 | 51 51,30 | 3,867 | ,3607 | 8,8762 | 0,5874 | +8,0851 |
| 1106 | Ophiuchi 7.8 | 3 | 52 4,95 | 2,816 | —8,2965 | —8,8130 | +0,4496 | —7,5835 |
| 1107 | Herculis 9 | 3 | 53 57,73 | 1,683 | ,4533 | ,9821 | ,2130 | —8,3259 |
| 1108 | Scorpii 9 | 5 | 54 59,19 | 3,466 | ,2894 | ,8263 | ,5398 | +7,7616 |
| 1109 | Herculis 7 | 4 | 56 45,21 | 2,602 | ,2848 | ,8340 | ,4153 | —7,8171 |
| 1110 | Ophiuchi 8 | 4 | 57 12,03 | 3,346 | ,2648 | ,8174 | ,5245 | +7,5897 |
| 1111 | Ophiuchi 9 | 1 | 59 33,91 | 3,471 | —8,2585 | —8,8290 | +0,5404 | +7,7330 |
| 1112 | Herculis 8 | 4 | 17 1 13,12 | 2,399 | ,2784 | ,8610 | ,3800 | —7,9406 |
| 1113 | ——— 9 | 4 | 1 26,47 | 3,713 | ,2731 | ,8579 | ,5697 | +7,9226 |
| 1114 | Ophiuchi 8 | 6 | 1 59,44 | 3,723 | ,2700 | ,8595 | ,5709 | +7,9246 |
| 1115 | ——— 9 | 1 | 2 24,30 | 3,722 | ,2670 | ,8596 | ,5708 | +7,9213 |
| 1116 | Ophiuchi 8 | 4 | 3 51,22 | 2,883 | —8,2119 | —8,8152 | +0,4598 | —7,3608 |
| 1117 | Herculis 7 | 3 | 4 16,12 | 2,479 | ,2453 | ,8517 | ,3943 | —7,8619 |
| 1118 | ——— 8 | 4 | 4 29,85 | 2,478 | ,2433 | ,8519 | ,3941 | —7,8602 |
| 1119 | Scorpii 8 | 3 | 5 4,54 | 3,929 | ,2765 | ,8906 | ,5943 | +8,0188 |
| 1120 | Ophiuchi 9 | 3 | 5 5,29 | 3,752 | ,2505 | ,8646 | ,5743 | +7,9190 |
| 1121 | Herculis 9 | 4 | 6 46,94 | 2,732 | —8,1981 | —8,8262 | +0,4365 | —7,5963 |
| 1122 | ——— 8 | 3 | 6 52,36 | 2,726 | ,1981 | ,8267 | ,4355 | —7,6035 |
| 1123 | 39 Ophiuchi 7 | 4 | 8 1,17 | 3,651 | ,2134 | ,8524 | ,5624 | +7,8244 |
| 1124 | Herculis 7 | 2 | 8 52,21 | 2,490 | ,2067 | ,8521 | ,3962 | —7,8146 |
| 1125 | Ophiuchi 8 | 6 | 10 17,87 | 3,128 | ,1551 | ,8142 | ,4953 | +6,8173 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | s. | ″ |
| 1081 | 4 | — 2 30 41,61 | — 7,449 | +9,5944 | +8,2127 | —0,8721 | +9,9677 | 148 | ,000 | — ,35 |
| 1082 | 4 | +19 14 26,44 | 7,308 | +9,8555 | —9,0796 | ,8638 | ,9690 | 160 | +,021 | — ,11 |
| 1083 | 3 | + 4 19 56,92 | 7,188 | +9,7016 | —8,4329 | ,8566 | ,9701 | 166 | +,017 | — ,09 |
| 1084 | 4 | —33 23 33,20 | 7,090 | —9,1847 | +9,2894 | ,8507 | ,9710 | 167 | +,012 | + ,05 |
| 1085 | 4 | +36 49 16,87 | 7,074 | +9,9581 | —9,3253 | ,8496 | ,9711 | 172 | +,007 | — ,03 |
| 1086 | | —41 32 | 6,883 | —9,4742 | +9,3575 | —0,8377 | +9,9727 | 179 | | |
| 1087 | 4 | —41 29 55,99 | 6,729 | —9,4757 | +9,3472 | ,8279 | ,9740 | 192 | —,002 | — ,01 |
| 1088 | 4 | + 8 27 34,70 | 6,647 | +9,7536 | —8,6878 | ,8226 | ,9747 | 208 | +,010 | — ,05 |
| 1089 | 4 | —41 42 43,12 | 6,630 | —9,4829 | +9,3427 | ,8215 | ,9748 | 199 | —,003 | ,00 |
| 1090 | | —41 32 | 6,603 | —9,4786 | +9,3394 | ,8197 | ,9750 | 204 | | |
| 1091 | 4 | +58 57 5,71 | 6,608 | +0,0137 | —9,4509 | —0,8201 | +9,9750 | 217 | +,015 | — ,02 |
| 1092 | 3 | —41 48 47,29 | 6,542 | —9,4871 | +9,3377 | ,8157 | ,9755 | 209 | —,012 | — ,09 |
| 1093 | 4 | —33 11 43,42 | 6,525 | —9,1903 | +9,2511 | ,8146 | ,9757 | 211 | +,020 | — ,03 |
| 1094 | 3 | +55 40 38,45 | 6,432 | +0,0116 | —9,4233 | ,8083 | ,9764 | 229 | +,027 | — ,19 |
| 1095 | 4 | —40 33 8,14 | 6,404 | —9,4564 | +9,3178 | ,8064 | ,9766 | 218 | +,008 | — ,15 |
| 1096 | 4 | —33 14 0,18 | 6,399 | —9,1931 | +9,2431 | —0,8061 | +9,9767 | 222 | +,002 | + ,11 |
| 1097 | 4 | — 3 53 22,43 | 6,360 | +9,5670 | +8,3341 | ,8034 | ,9769 | 226 | +,011 | + ,04 |
| 1098 | 4 | — 5 51 7,84 | 6,255 | +9,5250 | +8,5025 | ,7962 | ,9777 | 235 | +,019 | — ,08 |
| 1099 | 4 | +51 2 56,18 | 6,249 | +0,0047 | —9,3847 | ,7958 | ,9778 | 241 | +,004 | + ,05 |
| 1100 | 4 | —37 21 21,89 | 6,194 | —9,3655 | +9,2731 | ,7919 | ,9782 | 237 | +,024 | — ,05 |
| 1101 | 4 | —14 36 33,92 | 6,060 | +9,2528 | +8,8825 | —0,7825 | +9,9792 | 244 | +,001 | — ,09 |
| 1102 | 4 | —15 33 5,52 | 6,044 | +9,2095 | +8,9073 | ,7813 | ,9793 | 245 | +,014 | — ,23 |
| 1103 | 2 | —17 57 33,14 | 5,949 | +9,0719 | +8,9617 | ,7745 | ,9800 | 254 | +,006 | + ,01 |
| 1104 | 4 | +65 28 19,22 | 5,966 | +0,0204 | —9,4326 | ,7757 | ,9798 | 264 | +,032 | — ,23 |
| 1105 | 4 | —32 0 33,00 | 5,849 | —9,1430 | +9,1895 | ,7671 | ,9807 | 259 | +,001 | — ,05 |
| 1106 | 4 | +11 10 4,50 | 5,838 | +9,7860 | —8,7513 | —0,7662 | +9,9807 | 262 | +,014 | + ,02 |
| 1107 | 4 | +48 14 54,50 | 5,687 | +0,0017 | —9,3256 | ,7549 | ,9818 | 275 | +,005 | + ,06 |
| 1108 | 4 | —17 14 57,56 | 5,592 | +9,1106 | +8,9177 | ,7476 | ,9824 | 274 | +,015 | — ,09 |
| 1109 | 4 | +19 55 28,11 | 5,446 | +9,8669 | —8,9664 | ,7361 | ,9833 | 287 | +,005 | — ,15 |
| 1110 | 4 | —12 10 58,38 | 5,407 | +9,3444 | +8,7559 | ,7329 | ,9836 | 288 | +,005 | — ,09 |
| 1111 | 3 | —17 20 55,50 | 5,204 | +9,1004 | +8,8889 | —0,7164 | +9,9848 | 300 | +,012 | ,00 |
| 1112 | 4 | +27 21 23,32 | 5,069 | +9,9185 | —9,0652 | ,7049 | ,9856 | 312 | +,016 | + ,05 |
| 1113 | 4 | —26 29 22,80 | 5,047 | —8,6434 | +9,0506 | ,7030 | ,9858 | 308 | +,010 | — ,06 |
| 1114 | 8 | —26 49 44,02 | 4,996 | —8,6990 | +9,0512 | ,6986 | ,9861 | 311 | +,001 | — ,09 |
| 1115 | 1 | —26 48 41,14 | 4,962 | —8,6990 | +9,0480 | ,6957 | ,9863 | 1 | —,007 | — ,02 |
| 1116 | 4 | + 8 6 2,67 | 4,849 | +9,7536 | —8,5326 | —0,6856 | +9,9869 | 8 | +,022 | — ,07 |
| 1117 | 4 | +24 26 35,47 | 4,815 | +9,9009 | —8,9972 | ,6826 | ,9871 | 11 | +,026 | — ,06 |
| 1118 | 3 | +24 27 23,15 | 4,792 | +9,9015 | —8,9955 | ,6805 | ,9872 | 15 | +,020 | — ,11 |
| 1119 | 4 | —33 32 23,80 | 4,736 | —9,2430 | +9,1159 | ,6754 | ,9875 | 10 | +,011 | + ,07 |
| 1120 | 4 | —27 46 16,45 | 4,736 | —8,8388 | +9,0419 | ,6754 | ,9875 | 12 | +,012 | — ,09 |
| 1121 | 4 | +14 29 44,79 | 4,594 | +9,8215 | —8,7583 | —0,6622 | +9,9883 | 25 | —,001 | — ,42 |
| 1122 | 4 | +14 44 48,46 | 4,588 | +9,8248 | —8,7651 | ,6616 | ,9883 | 26 | +,020 | — ,16 |
| 1123 | 2 | —24 5 49,65 | 4,590 | —7,3010 | +8,9609 | ,6519 | ,9888 | 31 | +,005 | — ,05 |
| 1124 | 5 | +23 55 52,28 | 4,424 | +9,8987 | —8,9517 | ,6458 | ,9892 | 37 | ,000 | — ,01 |
| 1125 | 4 | — 2 37 37,48 | 4,293 | +9,5888 | +7,9930 | ,6327 | ,9898 | 45 | —,001 | — ,08 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m* *s.* | *s.* | | | | |
| 1126 | Ophiuchi 7.8 | 4 | 17 10 20,14 | +3,716 | —8,2019 | —8,8615 | +0,5701 | +7,8496 |
| 1127 | ——— 8 | 4 | 10 47,47 | 3,126 | ,1510 | ,8143 | ,4950 | +6,8021 |
| 1128 | ——— 8 | 3 | 11 15,47 | 3,715 | ,1935 | ,8617 | ,5700 | +7,8405 |
| 1129 | Serpentis 8 | 4 | 11 46,90 | 3,368 | ,1529 | ,8254 | ,5274 | +7,5023 |
| 1130 | Ophiuchi 9 | 4 | 12 9,22 | 3,634 | ,1767 | ,8517 | ,5604 | +7,7756 |
| 1131 | Herculis 7 | 2 | 12 38,63 | 1,516 | —8,3259 | —9,0053 | +0,1807 | —8,2093 |
| 1132 | Draconis 9 | 2 | 12 44,89 | 1,110 | ,3898 | 9,0699 | ,0453 | —8,3097 |
| 1133 | Ophiuchi 8 | 1 | 12 52,11 | 2,847 | ,1383 | 8,8208 | ,4544 | —7,3596 |
| 1134 | ——— 9 | 3 | 13 6,37 | 3,676 | ,1722 | 8,8573 | ,5654 | +7,7971 |
| 1135 | Herculis 7 | 2 | 13 28,88 | 2,438 | ,1719 | 8,8602 | ,3870 | —7,8090 |
| 1136 | Scorpii 8.9 | 3 | 13 36,73 | 3,526 | —8,1499 | —8,8401 | +0,5473 | +7,6687 |
| 1137 | Ophiuchi 8 | 2 | 14 4,17 | 2,839 | ,1276 | ,8217 | ,4532 | —7,3629 |
| 1138 | ——— 8 | 3 | 14 4,76 | 3,642 | ,1587 | ,8534 | ,5613 | +7,7625 |
| 1139 | ——— 8.9 | 1 | 14 59,11 | 3,280 | ,1179 | ,8212 | ,5159 | +7,3217 |
| 1140 | Scorpii 8 | 4 | 15 49,88 | 3,749 | ,1557 | ,8677 | ,5739 | +7,8194 |
| 1141 | Ophiuchi 8 | 2 | 16 5,82 | 2,752 | —8,1142 | —8,8282 | +0,4396 | —7,4839 |
| 1142 | ——— 7 | 2 | 16 7,59 | 2,860 | ,1066 | 8,8214 | ,4564 | —7,3010 |
| 1143 | Herculis 8.9 | 2 | 16 52,36 | 2,536 | ,1270 | 8,8493 | ,4041 | —7,7018 |
| 1144 | Ophiuchi 9 | 2 | 16 55,65 | 3,579 | ,1239 | 8,8469 | ,5538 | +7,6835 |
| 1145 | Draconis 8 | 3 | 17 1,88 | 1,114 | ,3469 | 9,0098 | ,0469 | —8,2660 |
| 1146 | Ophiuchi 8.9 | 3 | 18 1,91 | 2,699 | —8,0990 | —8,8332 | +0,4312 | —7,5313 |
| 1147 | ——— | | 18 | 2,678 | ,0974 | 8,8351 | ,4278 | —7,5516 |
| 1148 | ——— 9 | 3 | 19 29,00 | 3,285 | ,0730 | 8,8230 | ,5165 | +7,2845 |
| 1149 | ——— 7.8 | 3 | 19 52,82 | 2,869 | ,0677 | 8,8222 | ,4577 | —7,2417 |
| 1150 | Draconis 9 | 2 | 20 4,32 | 1,287 | ,2877 | 9,0429 | ,1096 | —8,1929 |
| 1151 | Ophiuchi 9 | 2 | 20 7,08 | 2,839 | —8,0665 | —8,8239 | +0,4532 | —7,3011 |
| 1152 | Serpentis 7 | 2 | 21 4,27 | 3,433 | ,0658 | 8,8338 | ,5357 | +7,4927 |
| 1153 | Ophiuchi 9 | 3 | 21 18,84 | 2,996 | ,0474 | 8,8184 | ,4765 | —6,7851 |
| 1154 | ——— 8 | 2 | 21 27,13 | 3,299 | ,0519 | 8,8244 | ,5184 | +7,2901 |
| 1155 | Draconis 8.9 | 2 | 21 34,10 | 1,303 | ,2685 | 9,0410 | ,1149 | —8,1724 |
| 1156 | Herculis 9 | 3 | 22 17,69 | 2,528 | —8,0699 | —8,8518 | +0,4028 | —7,6488 |
| 1157 | Ophiuchi 8 | 4 | 22 27,95 | 3,130 | ,0344 | ,8186 | ,4955 | +6,7075 |
| 1158 | ——— 8 | 5 | 22 55,21 | 3,123 | ,0289 | ,8186 | ,4946 | +6,6508 |
| 1159 | ——— 8 | 2 | 23 21,22 | 2,648 | ,0447 | ,8393 | ,4229 | —7,5265 |
| 1160 | Serpentis 9 | 2 | 23 27,99 | 3,413 | ,0366 | ,8328 | ,5331 | +7,4400 |
| 1161 | Ophiuchi 9 | 4 | 23 34,38 | 3,064 | —8,0206 | —8,8185 | +0,4863 | —5,4844 |
| 1162 | ——— 8.9 | 3 | 24 6,78 | 3,626 | ,0499 | ,8543 | ,5594 | +7,6400 |
| 1163 | Herculis 8 | 2 | 24 42,98 | 2,266 | ,0760 | ,8870 | ,3553 | —7,7914 |
| 1164 | ——— 7.8 | 2 | 24 43,93 | 2,358 | ,0629 | ,8739 | ,3725 | —7,7383 |
| 1165 | Ophiuchi 8 | 2 | 25 31,42 | 3,671 | ,0372 | ,8602 | ,5648 | +7,6552 |
| 1166 | 53 Ophiuchi *præc.* 8 | 3 | 26 49,37 | 2,842 | —7,9870 | —8,8256 | +0,4536 | —7,2128 |
| 1167 | ——— 7.8 | 5 | 27 24,54 | 3,520 | ,9960 | ,8436 | ,5465 | +7,5060 |
| 1168 | ——— 7 | 4 | 28 13,67 | 2,783 | ,9719 | ,8295 | ,4445 | —7,2951 |
| 1169 | Herculis 7.8 | 3 | 28 59,33 | 2,557 | ,9820 | ,8501 | ,4077 | —7,5383 |
| 1170 | Ophiuchi 8 | 4 | 29 24,25 | 2,792 | ,9545 | ,8293 | ,4459 | —7,2634 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | s. | ″ |
| 1126 | 4 | —26 22 22,63 | —4,287 | —8,6532 | +8,9779 | —0,6321 | +9,9898 | 41 | +,004 | + ,04 |
| 1127 | 3 | — 2 34 11,87 | 4,253 | +9,5911 | +7,9778 | ,6287 | ,9900 | 46 | +,002 | + ,02 |
| 1128 | 3 | —26 19 37,42 | 4,207 | —8,6532 | +8,9690 | ,6240 | ,9902 | 48 | +,005 | — ,02 |
| 1129 | 4 | —12 54 35,42 | 4,167 | +9,3117 | +8,6672 | ,6198 | ,9904 | 55 | +,001 | — ,11 |
| 1130 | 2 | —23 24 11,33 | 4,144 | +8,0000 | +8,9144 | ,6175 | ,9906 | 57 | +,002 | — ,06 |
| 1131 | 4 | +49 52 6,08 | 4,104 | +0,0124 | —9,1947 | —0,6133 | +9,9907 | 69 | +,026 | — ,21 |
| 1132 | 2 | +56 15 38,42 | 4,099 | +0,0232 | —9,2305 | ,6126 | ,9907 | 72 | +,014 | — ,04 |
| 1133 | 2 | + 9 35 31,69 | 4,076 | +9,7716 | —8,5296 | ,6102 | ,9908 | 66 | +,026 | — ,20 |
| 1134 | 2 | —24 55 57,66 | 4,053 | —8,2787 | +8,9307 | ,6078 | ,9909 | 62 | +,033 | — ,16 |
| 1135 | 4 | +25 42 33,81 | 4,025 | +9,9117 | —8,9399 | ,6047 | ,9911 | 71 | +,017 | — ,07 |
| 1136 | 3 | —19 17 2,17 | 4,007 | +8,9395 | +8,8197 | —0,6029 | +9,9911 | 67 | +,013 | — ,06 |
| 1137 | 3 | + 9 54 6,56 | 3,973 | +9,7745 | —8,5325 | ,5991 | ,9913 | 74 | +,018 | — ,18 |
| 1138 | 2 | —23 40 49,47 | 3,967 | +7,4771 | +8,9004 | ,5985 | ,9913 | 70 | +,008 | — ,01 |
| 1139 | 4 | — 9 11 47,54 | 3,893 | +9,4330 | +8,4921 | ,5903 | ,9916 | 79 | +,006 | — ,09 |
| 1140 | 4 | —27 26 32,16 | 3,819 | —8,8261 | +8,9436 | ,5819 | ,9920 | 82 | +,026 | + ,02 |
| 1141 | 4 | +13 33 30,21 | 3,802 | +9,8142 | —8,6477 | —0,5800 | +9,9920 | 85 | +,014 | — ,14 |
| 1142 | 3 | + 9 0 39,74 | 3,796 | +9,7657 | —8,4717 | ,5793 | ,9921 | 84 | +,009 | — ,10 |
| 1143 | 2 | +22 4 34,79 | 3,733 | +9,8870 | —8,8449 | ,5720 | ,9923 | 92 | +,006 | + ,06 |
| 1144 | 3 | —21 15 42,73 | 3,727 | +8,6812 | +8,8290 | ,5714 | ,9924 | 89 | +,031 | — ,05 |
| 1145 | 2 | +56 5 56,86 | 3,727 | +0,0241 | —9,1885 | ,5714 | ,9924 | 101 | +,008 | + ,04 |
| 1146 | 3 | +15 42 3,62 | 3,635 | +9,8351 | —8,6909 | —0,5605 | +9,9927 | 102 | +,013 | — ,09 |
| 1147 | 3 | +16 32 1,72 | 3,607 | +9,8426 | —8,7093 | ,5571 | ,9928 | 104 | | + ,04 |
| 1148 | 4 | — 9 21 26,00 | 3,509 | +9,4281 | +8,4548 | ,5452 | ,9932 | 107 | +,006 | — ,07 |
| 1149 | 3 | + 8 35 13,65 | 3,475 | +9,7604 | —8,4129 | ,5409 | ,9934 | 108 | +,021 | — ,23 |
| 1150 | 2 | +53 30 1,26 | 3,469 | +0,0212 | —9,1434 | ,5402 | ,9934 | 116 | +,014 | — ,18 |
| 1151 | 4 | + 9 53 36,97 | 3,452 | +9,7752 | —8,4707 | —0,5380 | +9,9935 | 111 | +,017 | — ,08 |
| 1152 | 4 | —15 29 57,26 | 3,372 | +9,1903 | +8,6527 | ,5278 | ,9938 | 114 | +,010 | — ,18 |
| 1153 | 3 | + 3 8 34,61 | 3,348 | +9,6875 | —7,9605 | ,5248 | ,9938 | 119 | +,004 | — ,27 |
| 1154 | 2 | — 9 57 38,98 | 3,337 | +9,4082 | +8,4596 | ,5233 | ,9939 | 118 | +,011 | — ,28 |
| 1155 | 3 | +53 16 26,95 | 3,337 | +0,0212 | —9,1252 | ,5233 | ,9939 | 124 | +,015 | + ,03 |
| 1156 | 3 | +22 16 28,74 | 3,268 | +9,8899 | —8,7911 | —0,5143 | +9,9941 | 123 | +,013 | — ,10 |
| 1157 | 3 | — 2 41 36,72 | 3,251 | +9,5877 | +7,8831 | ,5120 | ,9942 | 122 | +,006 | ,00 |
| 1158 | 3 | — 2 24 12,76 | 3,210 | +9,5944 | +7,8265 | ,5065 | ,9944 | 126 | —,010 | — ,17 |
| 1159 | 2 | +17 38 45,84 | 3,176 | +9,8531 | —8,6816 | ,5018 | ,9945 | 133 | +,006 | — ,09 |
| 1160 | 3 | —14 39 55,04 | 3,164 | +9,2304 | +8,6017 | ,5003 | ,9945 | 129 | +,024 | — ,17 |
| 1161 | 2 | + 0 10 10,02 | 3,153 | +9,6345 | —6,6604 | —0,4987 | +9,9946 | 132 | +,013 | — ,17 |
| 1162 | 2 | —22 54 17,03 | 3,107 | +8,2041 | +8,7804 | ,4923 | ,9947 | 134 | +,006 | — ,07 |
| 1163 | 3 | +31 17 9,22 | 3,061 | +9,9464 | —8,8992 | ,4858 | ,9949 | 143 | +,017 | + ,02 |
| 1164 | 3 | +28 15 54,70 | 3,061 | +9,9299 | —8,8592 | ,4858 | ,9949 | 141 | +,017 | — ,02 |
| 1165 | 4 | —24 30 28,07 | 2,980 | —8,2304 | +8,7902 | ,4742 | ,9951 | 142 | —,008 | — ,05 |
| 1166 | 3 | + 9 41 26,49 | 2,876 | +9,7738 | —8,3827 | —0,4588 | +9,9955 | 149 | +,010 | — ,22 |
| 1167 | 4 | —18 52 41,28 | 2,818 | +8,9590 | +8,6581 | ,4500 | ,9957 | 152 | +,016 | — ,05 |
| 1168 | 4 | +12 9 31,07 | 2,755 | +9,8007 | —8,4613 | ,4401 | ,9958 | 158 | +,016 | + ,05 |
| 1169 | 4 | +21 6 23,03 | 2,691 | +9,8814 | —8,6843 | ,4300 | ,9960 | 163 | +,018 | — ,01 |
| 1170 | 4 | +11 45 46,71 | 2,651 | +9,7973 | —8,4303 | ,4234 | ,9962 | 165 | +,005 | + ,03 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 1171 | Ophiuchi 8 | 3 | 17 30 10,93 | +2,792 | —7,9431 | —8,8295 | +0,4459 | —7,2531 |
| 1172 | ——— 8.9 | 2 | 30 21,27 | 3,329 | ,9392 | ,8286 | ,5223 | +7,2262 |
| 1173 | Herculis 8 | 2 | 30 27,80 | 2,568 | ,9598 | ,8492 | ,4096 | —7,5069 |
| 1174 | Ophiuchi 9 | 2 | 30 50,25 | 3,651 | ,9624 | ,8589 | ,5624 | +7,5674 |
| 1175 | ——— 7.8 | 1 | 30 52,00 | 3,019 | ,9243 | ,8207 | ,4799 | —6,4917 |
| 1176 | Ophiuchi 7 | 4 | 31 26,25 | 2,752 | —7,9279 | —8,8326 | +0,4396 | —7,2935 |
| 1177 | ——— 8 | 3 | 32 7,96 | 2,753 | ,9165 | ,8327 | ,4398 | —7,2805 |
| 1178 | ——— 7.8 | 3 | 32 36,85 | 3,097 | ,8974 | ,8209 | ,4909 | +6,2587 |
| 1179 | Herculis 7.8 | 2 | 32 56,46 | 2,463 | ,9340 | ,8619 | ,3915 | —7,5520 |
| 1180 | Ophiuchi 8 | 3 | 34 35,20 | 2,845 | ,8714 | ,8273 | ,4541 | —7,0905 |
| 1181 | Ophiuchi 8 | 3 | 34 49,89 | 3,603 | —7,8923 | —8,8540 | +0,5567 | +7,4646 |
| 1182 | ——— 7.8 | 2 | 34 56,44 | 3,231 | ,8617 | ,8246 | ,5093 | +6,9476 |
| 1183 | ——— 7 | 2 | 34 59,31 | 2,654 | ,8786 | ,8415 | ,4239 | —7,3523 |
| 1184 | Herculis 7 | 2 | 35 32,29 | 2,370 | ,9021 | ,8744 | ,3747 | —7,5699 |
| 1185 | 83 ——— 6 | 2 | 35 45,14 | 2,458 | ,8858 | ,8630 | ,3906 | —7,5060 |
| 1186 | Draconis 8 | 3 | 36 | —0,376 | —8,2844 | —9,2652 | —9,5752 | —8,2543 |
| 1187 | Ophiuchi 8 | 3 | 36 14,24 | +2,933 | 7,8381 | 8,8238 | +0,4673 | —6,8427 |
| 1188 | 61 ——— *seq.* 7.8 | 4 | 36 21,34 | 3,007 | 7,8339 | 8,8221 | ,4781 | —6,4988 |
| 1189 | ——— 7.8 | 4 | 36 48,22 | 2,740 | 7,8376 | 8,8346 | ,4377 | —7,2172 |
| 1190 | Draconis 8 | 2 | 36 53,67 | 1,277 | —8,0495 | 9,0465 | ,1062 | —7,9542 |
| 1191 | Ophiuchi 8.9 | 3 | 37 31,91 | 2,933 | —7,8129 | —8,8241 | +0,4673 | —6,8162 |
| 1192 | ——— 7.8 | 1 | 38 8,84 | 2,935 | ,8010 | ,8241 | ,4676 | —6,7993 |
| 1193 | ——— 8.9 | 2 | 38 44,51 | 2,936 | ,7888 | ,8242 | ,4678 | —6,7820 |
| 1194 | ——— 8 | 2 | 39 0,46 | 2,934 | ,7834 | ,8243 | ,4675 | —6,7842 |
| 1195 | Telescopii 7 | 3 | 40 0,91 | 4,214 | ,8787 | ,9426 | ,6247 | +7,6932 |
| 1196 | Sagittarii 7 | 3 | 41 26,17 | 3,979 | —7,8081 | —8,9057 | +0,5998 | +7,5596 |
| 1197 | ——— 8 | 5 | 42 1,99 | 3,545 | ,7383 | ,8488 | ,5496 | +7,2664 |
| 1198 | Tauri Pon. 8 | 3 | 42 38,43 | 2,897 | ,7024 | ,8262 | ,4619 | —6,8064 |
| 1199 | Herculis 7 | 4 | 42 38,54 | 1,949 | ,8165 | ,9386 | ,2898 | —7,6248 |
| 1200 | ——— 8 | | 42 | 3,992 | ,7757 | ,9080 | ,6012 | +7,5315 |
| 1201 | Ophiuchi 9 | 2 | 43 43,35 | 3,522 | —7,6932 | —8,8467 | +0,5468 | +7,2021 |
| 1202 | ——— 8 | 3 | 44 3,96 | 3,549 | 7,6868 | 8,8495 | + ,5501 | +7,2177 |
| 1203 | $\psi^1$ Draconis *seq.* 7 | 3 | 44 53,95 | —1,093 | 8,1588 | 9,3385 | — ,0386 | —8,1376 |
| 1204 | Ophiuchi 8 | 3 | 45 3,53 | +3,632 | 7,6675 | 8,8588 | + ,5601 | +7,2585 |
| 1205 | ——— 7 | 3 | 45 33,73 | 3,104 | 7,6159 | 8,8232 | + ,4919 | +6,0527 |
| 1206 | Serpentis 7.8 | 4 | 45 46,82 | 3,342 | —7,6185 | —8,8320 | +0,5240 | +6,9219 |
| 1207 | Telescopii 7 | 3 | 46 9,03 | 4,256 | ,7238 | 8,9499 | ,6290 | +7,5466 |
| 1208 | Herculis 7.8 | | 46 | 1,564 | ,7687 | 9,0013 | ,1942 | —7,6427 |
| 1209 | Serpentis 8 | 3 | 47 22,99 | 3,440 | ,5733 | 8,8397 | ,5366 | +7,0043 |
| 1210 | Ophiuchi 8 | 2 | 47 47,23 | 3,525 | ,5668 | 8,8474 | ,5472 | +7,0772 |
| 1211 | Tauri Pon. 7 | 3 | 47 57,07 | 2,947 | —7,5396 | —8,8251 | + 0,4694 | —6,4955 |
| 1212 | ——— 7 | 2 | 48 46,98 | 2,951 | ,5092 | ,8251 | ,4700 | —6,4510 |
| 1213 | Ophiuchi 7.8 | 1 | 49 11,74 | 3,472 | ,5079 | ,8425 | ,5406 | +6,9697 |
| 1214 | Herculis 7 | 2 | 49 13,11 | 2,625 | ,5115 | ,8461 | ,4191 | —7,0096 |
| 1215 | ——— 8 | 4 | 49 59,09 | 1,705 | ,6157 | ,9785 | ,2317 | —7,4695 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | s. | ″ |
| 1171 | 4 | +11 47 33,18 | —2,581 | +9,7973 | —8,4200 | —0,4119 | +9,9964 | 171 | +,004 | — ,02 |
| 1172 | 3 | —11 10 1,20 | 2,564 | +9,3692 | +8,3940 | ,4089 | ,9964 | 170 | +,014 | — ,11 |
| 1173 | 2 | +20 42 3,71 | 2,564 | +9,8785 | —8,6550 | ,4089 | ,9964 | 175 | +,013 | — ,01 |
| 1174 | 3 | —23 44 20,86 | 2,524 | —7,4771 | +8,7051 | ,4020 | ,9965 | 173 | +,012 | — ,01 |
| 1175 | 3 | + 2 7 44,61 | 2,524 | +9,6730 | —7,6675 | ,4020 | ,9965 | 177 | +,048 | + ,02 |
| 1176 | 3 | +13 25 34,89 | 2,477 | +9,8142 | —8,4576 | —0,3940 | +9,9966 | 183 | +,013 | + ,01 |
| 1177 | 2 | +13 22 52,34 | 2,414 | +9,8136 | —8,4450 | ,3827 | ,9968 | 185 | +,010 | ,00 |
| 1178 | 4 | — 1 18 16,59 | 2,373 | +9,6075 | +7,4347 | ,3753 | ,9969 | 187 | +,016 | — ,06 |
| 1179 | 3 | +24 30 33,58 | 2,350 | +9,9069 | —8,6871 | ,3711 | ,9970 | 191 | +,014 | — ,06 |
| 1180 | 3 | + 9 32 2,27 | 2,205 | +9,7730 | —8,2606 | ,3434 | ,9973 | 199 | +,011 | — ,14 |
| 1181 | 4 | —21 56 30,42 | 2,176 | +8,5051 | +8,6081 | —0,3377 | +9,9974 | 197 | —,006 | — ,07 |
| 1182 | 4 | — 6 59 48,99 | 2,170 | +9,4914 | +8,1205 | ,3365 | ,9974 | 202 | +,014 | — ,06 |
| 1183 | 2 | +17 18 53,66 | 2,170 | +9,8513 | —8,5083 | ,3365 | ,9974 | 205 | +,011 | + ,02 |
| 1184 | 2 | +27 43 39,23 | 2,124 | +9,9279 | —8,6930 | ,3272 | ,9975 | 212 | +,019 | — ,06 |
| 1185 | 3 | +24 39 4,61 | 2,101 | +9,9079 | —8,6406 | ,3224 | ,9976 | 213 | +,002 | — ,19 |
| 1186 | 1 | +68 54 10,36 | 2,083 | +0,0350 | —8,9867 | —0,3188 | +9,9976 | 232 | | + ,11 |
| 1187 | 1 | + 5 47 36,33 | 2,060 | +9,7269 | —8,0165 | ,3139 | ,9977 | 214 | +,021 | — ,08 |
| 1188 | 3 | + 2 39 21,59 | 2,049 | +9,6803 | —7,6745 | ,3115 | ,9977 | 216 | —,001 | — ,11 |
| 1189 | 3 | +13 51 38,13 | 2,008 | +9,8189 | —8,3804 | ,3028 | ,9978 | 219 | +,007 | + ,02 |
| 1190 | 3 | +53 25 11,67 | 2,008 | +0,0245 | —8,9055 | ,3028 | ,9978 | 224 | —,035 | — ,14 |
| 1191 | 2 | + 5 47 22,99 | 1,944 | +9,7259 | —7,9901 | —0,2887 | +9,9979 | 222 | +,016 | — ,05 |
| 1192 | 3 | + 5 43 45,24 | 1,892 | +9,7251 | —7,9733 | ,2769 | ,9980 | 230 | +,005 | — ,19 |
| 1193 | 3 | + 5 38 0,80 | 1,840 | +9,7243 | —7,9560 | ,2648 | ,9982 | 234 | +,017 | — ,12 |
| 1194 | 3 | + 5 45 34,93 | 1,816 | +9,7259 | —7,9581 | ,2592 | ,9982 | 235 | +,012 | — ,10 |
| 1195 | 3 | —40 42 49,14 | 1,724 | —9,5065 | +8,7489 | ,2364 | ,9984 | 236 | +,009 | — ,17 |
| 1196 | 4 | —34 21 49,56 | 1,596 | —9,3096 | +8,6525 | —0,2030 | +9,9986 | 248 | —,016 | — ,03 |
| 1197 | 5 | —19 43 18,59 | 1,549 | +8,8573 | +8,4163 | ,1901 | ,9987 | 251 | +,015 | — ,16 |
| 1198 | 4 | + 7 17 7,20 | 1,503 | +9,7459 | —7,9789 | ,1769 | ,9988 | 260 | —,003 | — ,05 |
| 1199 | 2 | +40 1 55,72 | 1,509 | +9,9881 | —8,6850 | ,1786 | ,9988 | 262 | +,008 | — ,02 |
| 1200 | | —34 44 | 1,474 | —9,3243 | +8,6223 | ,1684 | ,9988 | 256 | | |
| 1201 | 3 | —18 49 45,28 | 1,404 | +8,9494 | +8,3543 | —0,1473 | +9,9989 | 263 | +,026 | + ,09 |
| 1202 | 4 | —19 50 34,56 | 1,375 | +8,8388 | +8,3672 | ,1383 | ,9990 | 264 | +,002 | — ,07 |
| 1203 | 2 | +72 14 9,93 | 1,323 | +0,0342 | —8,7982 | ,1214 | ,9990 | 287 | +,013 | — ,27 |
| 1204 | 4 | —22 56 23,95 | 1,287 | +8,0414 | +8,3988 | ,1098 | ,9991 | 268 | +,004 | + ,04 |
| 1205 | 3 | — 1 34 37,23 | 1,241 | +9,6096 | +7,2286 | ,0938 | ,9992 | 274 | ,000 | — ,02 |
| 1206 | 3 | —11 35 41,88 | 1,224 | +9,3502 | +8,0890 | —0,0876 | +9,9992 | 276 | +,013 | — ,04 |
| 1207 | 4 | —41 40 57,42 | 1,189 | —9,5315 | +8,5959 | ,0751 | ,9992 | 272 | +,006 | — ,03 |
| 1208 | 1 | +48 26 31,26 | 1,171 | +0,0149 | —8,6407 | ,0686 | ,9992 | 288 | | — ,04 |
| 1209 | 2 | —15 39 6,88 | 1,084 | +9,1732 | +8,1640 | ,0350 | ,9994 | 284 | +,002 | — ,04 |
| 1210 | 2 | —18 54 23,82 | 1,049 | +8,9445 | +8,2292 | ,0208 | ,9994 | 290 | +,018 | — ,06 |
| 1211 | 3 | + 5 11 34,62 | 1,037 | +9,7177 | —7,6698 | —0,0159 | +9,9994 | 292 | +,005 | — ,10 |
| 1212 | 3 | + 5 0 42,00 | 0,967 | +9,7152 | —7,6254 | 9,9856 | ,9995 | 296 | +,010 | — ,06 |
| 1213 | 4 | —16 49 55,31 | 0,927 | +9,1004 | +8,1268 | 9,9669 | ,9995 | 297 | +,006 | — ,03 |
| 1214 | 3 | +18 21 22,72 | 0,927 | +9,8609 | —8,1630 | 9,9669 | ,9995 | 300 | +,015 | — ,04 |
| 1215 | 3 | +45 34 59,96 | 0,868 | +0,0077 | —8,4906 | 9,9387 | ,9996 | 306 | +,024 | + ,03 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 1216 | Serpentis 7.8 | 3 | 17 50 21,03 | +3,186 | —7,4384 | —8,8252 | +0,5032 | +6,3816 |
| 1217 | Draconis 7.8 | 4 | 50 27,33 | 0,715 | ,7466 | 9,1303 | 9,8543 | —7,6860 |
| 1218 | Sagittarii 8 | 3 | 51 28,13 | 3,503 | ,4064 | 8,8456 | 0,5444 | +6,8979 |
| 1219 | ——— 7.8 | 3 | 52 35,65 | 3,670 | ,3571 | ,8638 | ,5647 | +6,9706 |
| 1220 | ——— 7.8 | 2 | 53 17,36 | 3,971 | ,3560 | ,9054 | ,5989 | +7,1041 |
| 1221 | Herculis 8 | 2 | 53 38,33 | 2,732 | —7,2694 | —8,8371 | +0,4365 | —6,6571 |
| 1222 | Sagittarii 8.9 | | 53 | 3,639 | ,2830 | ,8601 | ,5610 | +6,8773 |
| 1223 | Tauri Pon. 8.9 | 3 | 54 6,82 | 2,965 | ,2183 | ,8250 | ,4720 | —6,1015 |
| 1224 | Sagittarii 9 | 2 | 54 19,87 | 3,540 | ,2270 | ,8493 | ,5490 | +6,7497 |
| 1225 | Herculis 8 | 4 | 54 33,74 | 2,507 | ,2205 | ,8591 | ,3991 | —6,8085 |
| 1226 | Herculis 8 | 3 | 55 35,31 | 2,710 | —7,1020 | —8,8389 | +0,4330 | —6,5155 |
| 1227 | Telescopii 7.8 | 2 | 55 49,24 | 4,332 | 7,1972 | ,9626 | ,6367 | +7,0342 |
| 1228 | Sagittarii 8 | 3 | 56 23,89 | 3,790 | 7,0423 | ,8795 | ,5786 | +6,7192 |
| 1229 | ——— 8 | 3 | 57 27,59 | 3,872 | 6,8861 | ,8909 | ,5879 | +6,5982 |
| 1230 | ——— 8.9 | 3 | 57 50,95 | 3,604 | 6,7824 | ,8563 | ,5568 | +6,3535 |
| 1231 | Tauri Pon. 7.8 | 2 | 58 13,48 | 2,747 | —6,6800 | —8,8360 | +0,4389 | —6,0476 |
| 1232 | Sagittarii 7 | 2 | 58 48,79 | 3,594 | 6,4650 | ,8551 | ,5556 | +6,0284 |
| 1233 | ——— 7 | 2 | 59 4,27 | 3,723 | 6,3344 | ,8707 | ,5709 | —5,9780 |
| 1234 | Tauri Pon. 7.8 | 3 | 59 18,62 | 2,911 | 6,1937 | ,8269 | ,4640 | —5,2607 |
| 1235 | ——— 8 | 2 | 59 43,87 | 2,845 | 5,2936 | ,8299 | ,4541 | +4,5105 |
| 1236 | Sagittarii 9 | 2 | 18 0 6,52 | 3,657 | +6,0252 | —8,8625 | +0,5631 | —5,6311 |
| 1237 | ——— 7.8 | 2 | 0 55,74 | 3,714 | ,5636 | ,8694 | ,5698 | —6,2021 |
| 1238 | 100 Herculis *præc.* 6.7 | 5 | 1 13,01 | 2,414 | ,6565 | ,8705 | ,3827 | +6,2996 |
| 1239 | ——— 8 | 3 | 1 27,07 | 2,441 | ,7111 | ,8671 | ,3876 | +6,3395 |
| 1240 | Ophiuchi 8.9 | 3 | 1 59,57 | 2,785 | ,8157 | ,8334 | ,4448 | +6,1317 |
| 1241 | Herculis 7 | 4 | 2 54,21 | 2,283 | +7,0147 | —8,8881 | +0,3585 | +6,7194 |
| 1242 | ——— 8 | 4 | 4 30,55 | 2,150 | ,2168 | ,9079 | ,3324 | +6,9701 |
| 1243 | Sagittarii 7.8 | 3 | 4 53,73 | 3,939 | ,2512 | ,9009 | ,5954 | —6,9888 |
| 1244 | ——— 8.9 | 4 | 5 5,02 | 3,664 | ,2301 | ,8632 | ,5640 | —6,8399 |
| 1245 | Tauri Pon. 7.8 | 4 | 6 13,54 | 2,847 | ,2757 | ,8296 | ,4544 | +6,4888 |
| 1246 | Sagittarii 8 | 3 | 7 29,20 | 4,085 | +7,4513 | —8,9229 | +0,6112 | —7,2336 |
| 1247 | Tauri Pon. 7.8 | 4 | 9 22,23 | 2,784 | ,4525 | ,8331 | ,4447 | +6,7709 |
| 1248 | Cly. Sob. 8.9 | 4 | 9 34,29 | 3,469 | ,4736 | ,8423 | ,5402 | —6,9324 |
| 1249 | Sagittarii 7.8 | 3 | 9 53,38 | 4,152 | ,5793 | ,9335 | ,6183 | —7,3790 |
| 1250 | Tauri Pon. 7.8 | 2 | 10 14,53 | 2,789 | ,4899 | ,8328 | ,4454 | +6,8012 |
| 1251 | Cly. Sob. 8.9 | 3 | 11 46,99 | 3,462 | +7,5608 | —8,8414 | +0,5393 | —7,0125 |
| 1252 | —— —— 8 | 2 | 11 51,51 | 3,462 | ,5632 | ,8414 | ,5393 | —7,0149 |
| 1253 | —— —— 8.9 | 3 | 12 8,66 | 3,733 | ,6051 | ,8714 | ,5721 | —7,2544 |
| 1254 | Sagittarii 7.8 | 3 | 13 10,52 | 3,982 | ,6762 | ,9066 | ,6001 | —7,4282 |
| 1255 | Draconis 8.9 | 1 | 14 29,91 | —0,332 | 8,0613 | 9,2606 | —9,5211 | +8,0303 |
| 1256 | Serpentis 7.8 | 4 | 15 21,44 | +3,096 | +7,6548 | —8,8230 | +0,4908 | —5,9818 |
| 1257 | Tauri Pon. 7 | 3 | 17 4,39 | 2,951 | ,7022 | ,8243 | ,4700 | +6,6425 |
| 1258 | Sagittarii 8 | 3 | 18 50,47 | 3,693 | ,7867 | ,8656 | ,5674 | —7,4148 |
| 1259 | ——— 8 | 2 | 19 11,78 | 3,954 | ,8307 | ,9020 | ,5970 | —7,5743 |
| 1260 | ——— 8.9 | 3 | 19 13,87 | 3,953 | ,8319 | ,9017 | ,5969 | —7,5749 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1216 | 4 | —5 1 37,57 | — 0,823 | +9,5366 | +7,5560 | —9,9148 | +9,9996 | 305 | +,012 | — ,24 |
| 1217 | 2 | +60 25 39,26 | 0,827 | +0,0346 | —8,5553 | ,9179 | ,9996 | 315 | +,004 | — ,09 |
| 1218 | 2 | —18 3 28,05 | 0,728 | +9,0128 | +8,0521 | ,8625 | ,9997 | 308 | —,007 | ,00 |
| 1219 | 3 | —24 14 43,66 | 0,624 | —8,1461 | +8,1066 | ,7950 | ,9998 | 319 | —,017 | — ,01 |
| 1220 | 3 | —34 2 51,10 | 0,566 | —9,3010 | +8,1986 | ,7524 | ,9998 | 325 | +,019 | ,00 |
| 1221 | 2 | +14 7 47,19 | 0,543 | +9,8228 | —7,8199 | —9,7341 | +9,9998 | 336 | +,014 | — ,12 |
| 1222 | 3 | —23 7 53,96 | 0,530 | +7,7781 | +8,0170 | ,7247 | ,9998 | 330 | | ,00 |
| 1223 | 2 | + 4 22 51,34 | 0,496 | +9,7067 | —7,2765 | ,6951 | ,9999 | 340 | +,012 | — ,29 |
| 1224 | 3 | —19 27 21,19 | 0,476 | +8,8808 | +7,9003 | ,6795 | ,9999 | 338 | +,002 | — ,16 |
| 1225 | 4 | +22 46 53,72 | 0,462 | +9,8960 | —7,9493 | ,6633 | ,9999 | 345 | +,016 | — ,02 |
| 1226 | 3 | +15 0 13,35 | 0,367 | +9,8312 | —7,6765 | —9,5650 | +9,9999 | 350 | +,019 | — ,22 |
| 1227 | 3 | —43 23 49,66 | 0,343 | —9,5705 | +8,0716 | ,5365 | ,9999 | 346 | +,003 | + ,07 |
| 1228 | 3 | —28 22 5,17 | 0,291 | —8,9685 | +7,8397 | ,4646 | ,9999 | 351 | +,016 | + ,04 |
| 1229 | 3 | —31 0 46,67 | 0,199 | —9,1553 | +7,7072 | ,2972 | 0,0000 | 355 | +,019 | — ,09 |
| 1230 | 4 | —21 52 18,10 | 0,169 | +8,4914 | +7,4972 | ,2281 | ,0000 | 360 | +,021 | — ,03 |
| 1231 | 3 | +13 28 34,18 | 0,140 | +9,8162 | —7,2116 | —9,1459 | +0,0000 | 363 | —,020 | — ,06 |
| 1232 | 3 | —21 27 50,07 | 0,082 | +8,5798 | +7,1733 | 8,9118 | ,0000 | 364 | +,006 | — ,01 |
| 1233 | 3 | —26 7 3,63 | 0,058 | —8,6990 | +7,1074 | 8,7657 | ,0000 | 365 | ,000 | — ,27 |
| 1234 | 3 | + 6 41 31,00 | 0,046 | +9,7388 | —6,4338 | 8,6688 | ,0000 | 371 | —,001 | — ,07 |
| 1235 | 2 | + 9 28 45,97 | 0,006 | +9,7730 | —5,6806 | 7,7657 | ,0000 | 376 | +,012 | — ,22 |
| 1236 | 1 | —23 47 30,02 | + 0,029 | —7,7781 | —6,7686 | +8,4647 | +0,0000 | 375 | +,016 | + ,10 |
| 1237 | 3 | —25 47 13,77 | 0,099 | —8,6434 | —7,3326 | 8,9961 | ,0000 | 383 | +,014 | — ,09 |
| 1238 | 3 | +26 4 43,26 | 0,122 | +9,9191 | +7,4291 | 9,0879 | ,0000 | 389 | +,017 | + ,07 |
| 1239 | 2 | +25 9 20,63 | 0,140 | +9,9127 | +7,4723 | 9,1459 | ,0000 | 391 | +,014 | — ,17 |
| 1240 | 4 | +11 56 48,48 | 0,192 | +9,8007 | +7,2983 | 9,2842 | ,0000 | 3 | +,001 | — ,20 |
| 1241 | 5 | +30 26 17,31 | 0,268 | +9,9445 | +7,8311 | +9,4284 | +0,0000 | 6 | +,016 | — ,05 |
| 1242 | 3 | +34 31 36,86 | 0,408 | +9,9652 | +8,0621 | ,6108 | 9,9999 | 13 | +,010 | — ,09 |
| 1243 | 4 | —33 7 53,72 | 0,449 | —9,2624 | —8,0878 | ,6521 | 0,0000 | 9 | +,012 | — ,06 |
| 1244 | 4 | —24 2 14,72 | 0,466 | —8,0414 | —7,9766 | ,6687 | ,0000 | 12 | —,001 | — ,01 |
| 1245 | 4 | + 9 24 1,78 | 0,558 | +9,7716 | +7,6590 | ,7479 | 9,9998 | 19 | +,004 | — ,19 |
| 1246 | 5 | —37 16 34,15 | 0,677 | —9,4150 | —8,3104 | +9,8301 | +9,9997 | 22 | —,002 | — ,11 |
| 1247 | 4 | +12 1 0,99 | 0,833 | +9,8007 | +7,9374 | ,9209 | ,9996 | 30 | +,009 | + ,10 |
| 1248 | 3 | —16 42 49,25 | 0,857 | +9,1106 | —8,0898 | ,9329 | ,9996 | 29 | +,007 | — ,08 |
| 1249 | 4 | —39 4 55,46 | 0,886 | —9,4669 | —8,4451 | ,9474 | ,9996 | 28 | +,005 | — ,08 |
| 1250 | 4 | +11 49 22,11 | 0,909 | +9,7993 | +7,9686 | ,9587 | ,9995 | 35 | +,023 | — ,08 |
| 1251 | 3 | —16 26 30,25 | 1,049 | +9,1271 | —8,1704 | +0,0208 | +9,9994 | 38 | +,011 | — ,18 |
| 1252 | 4 | —16 26 23,89 | 1,055 | +9,1271 | —8,1728 | ,0232 | ,9994 | 40 | +,001 | — ,07 |
| 1253 | 4 | —26 29 5,63 | 1,084 | —8,7559 | —8,3823 | ,0350 | ,9994 | 41 | +,012 | — ,08 |
| 1254 | 4 | —34 24 28,51 | 1,177 | —9,3139 | —8,5208 | ,0708 | ,9992 | 44 | +,004 | — ,11 |
| 1255 | 3 | +68 35 1,40 | 1,305 | +0,0362 | +9,7688 | ,1019 | ,9991 | 61 | —,054 | + ,08 |
| 1256 | 4 | — 1 13 26,48 | 1,358 | +9,6159 | —7,1578 | +0,1327 | +9,9990 | 59 | +,012 | — ,09 |
| 1257 | 4 | + 4 59 57,85 | 1,508 | +9,7152 | +7,8169 | ,1786 | ,9988 | 65 | +,013 | — ,15 |
| 1258 | 4 | —25 8 15,68 | 1,666 | —8,4771 | —8,5477 | ,2216 | ,9985 | 68 | —,002 | — ,20 |
| 1259 | 3 | —33 38 41,69 | 1,695 | —9,2810 | —8,6707 | ,2291 | ,9984 | 69 | +,028 | — ,13 |
| 1260 | 4 | —33 35 32,02 | 1,700 | —9,2787 | —8,6716 | ,2305 | ,9984 | 71 | +,015 | — ,01 |

| No. | Star's name and Mag. | | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | *a* | *b* | *c* | *d* |
| | | | | *h. m. s.* | *s.* | | | | |
| 1261 | Serpentis | 8.9 | 3 | 18 19 26,58 | +3,066 | +7,7569 | —8,8223 | +0,4866 | +5,0657 |
| 1262 | Herculis | 7.8 | 3 | 19 53,80 | 2,408 | ,8134 | ,8699 | ,3817 | +7,4608 |
| 1263 | ——— | 7.8 | 3 | 20 5,36 | 2,408 | ,8176 | ,8699 | ,3817 | +7,4651 |
| 1264 | Sagittarii | 8 | 3 | 20 22,83 | 3,665 | ,8168 | ,8620 | ,5641 | —7,4286 |
| 1265 | ——— | 7.8 | 3 | 21 38,53 | 3,933 | ,8794 | ,8985 | ,5947 | —7,6159 |
| 1266 | Cor. Aust. | 8 | 5 | 22 4,50 | 4,138 | +7,9204 | —8,9302 | +0,6168 | —7,7175 |
| 1267 | Sagittarii | 7.8 | 2 | 23 19,86 | 3,933 | ,9126 | ,8983 | ,5947 | —7,6495 |
| 1268 | ——— | 7.8 | 3 | 25 34,38 | 3,577 | ,9042 | ,8509 | ,5535 | —7,4578 |
| 1269 | ——— | 7.8 | 3 | 25 37,51 | 3,477 | ,8952 | ,8408 | ,5412 | —7,3636 |
| 1270 | ——— | 8.9 | 2 | 26 44,86 | 3,815 | ,9538 | ,8806 | ,5815 | —7,6444 |
| 1271 | Sagittarii | 8.9 | 2 | 26 50,86 | 3,822 | +7,9559 | —8,8816 | +0,5823 | —7,6496 |
| 1272 | Lyræ | 8 | 2 | 27 14,17 | 2,003 | 8,0074 | ,9288 | ,3017 | +7,8039 |
| 1273 | Sagittarii | 7.8 | 2 | 27 43,32 | 3,950 | 7,9893 | ,9001 | ,5966 | —7,7325 |
| 1274 | Cly. Sob. | 8 | 3 | 28 49,63 | 3,242 | 7,9287 | ,8241 | ,5108 | —7,0424 |
| 1275 | Tauri Pon. | 7.8 | 2 | 29 32,48 | 2,803 | 7,9433 | ,8287 | ,4476 | +7,2348 |
| 1276 | Tauri Pon. | 7.8 | 5 | 29 39,85 | 2,805 | +7,9451 | —8,8286 | +0,4479 | +7,2341 |
| 1277 | Sagittarii | 8 | 3 | 30 28,75 | 3,854 | 8,0155 | ,8854 | ,5859 | —7,7231 |
| 1278 | Tauri Pon. | 8 | 2 | 30 42,73 | 3,116 | 7,9531 | ,8202 | ,4936 | —6,5171 |
| 1279 | Cly. Sob. | 8 | 3 | 31 34,50 | 3,412 | 7,9791 | ,8341 | ,5330 | —7,3821 |
| 1280 | Aquilæ | 8 | 3 | 33 25,77 | 3,242 | 7,9931 | ,8229 | ,5108 | —7,1078 |
| 1281 | Cor. Aust. | 7 | 1 | 33 35,52 | 4,173 | +8,1068 | —8,9340 | +0,6204 | —7,9137 |
| 1282 | Tauri Pon. | 7.8 | 3 | 33 51,07 | 2,784 | ,0042 | 8,8288 | 0,4447 | +7,3256 |
| 1283 | ——— ——— | 7.8 | 5 | 34 12,39 | 2,784 | ,0084 | 8,8288 | 0,4447 | +7,3304 |
| 1284 | Draconis | 7 | 3 | 35 41,53 | 0,192 | ,3948 | 9,1984 | 9,2833 | +8,3533 |
| 1285 | Tauri Pon. | 7.8 | 3 | 35 59,66 | 2,872 | ,0254 | 8,8232 | 0,4582 | +7,1934 |
| 1286 | Draconis | 7 | 2 | 36 4,49 | 0,545 | +8,3521 | —9,1524 | +9,7364 | +8,2996 |
| 1287 | Antinoi | 8.9 | 1 | 36 50,42 | 3,146 | ,0316 | 8,8190 | 0,4978 | —6,8025 |
| 1288 | ——— | 7.8 | 3 | 37 14,48 | 3,216 | ,0374 | 8,8208 | 0,5073 | —7,0857 |
| 1289 | Draconis | 8 | 3 | 38 12,02 | 0,411 | ,3963 | 9,1704 | 9,6138 | +8,3486 |
| 1290 | Lyræ | 7 | 3 | 38 32,63 | 2,025 | ,1554 | 8,9233 | 0,3064 | +7,9483 |
| 1291 | Sagittarii | 8.9 | 3 | 39 7,70 | 3,556 | +8,0836 | —8,8454 | +0,5510 | —7,6245 |
| 1292 | Lyræ | 8 | 3 | 39 10,43 | 2,152 | ,1421 | 8,9032 | ,3328 | +7,8989 |
| 1293 | Draconis | 9.10 | 2 | 39 55,23 | 1,125 | ,3147 | 9,0684 | ,0511 | +8,2327 |
| 1294 | Sagittarii | 7.8 | 3 | 40 25,15 | 3,737 | ,1206 | 8,8670 | ,5725 | —7,7769 |
| 1295 | ——— | 8 | 3 | 40 48,08 | 3,611 | ,1084 | 8,8511 | ,5576 | —7,6903 |
| 1296 | Antinoi | 7 | 2 | 40 54,48 | 3,209 | +8,0781 | —8,8193 | +0,5064 | —7,1044 |
| 1297 | Lyræ | 8 | 3 | 41 17,74 | 2,355 | ,1343 | 8,8727 | ,3720 | +7,8125 |
| 1298 | Antinoi | 8 | 3 | 41 57,24 | 3,299 | ,0918 | 8,8231 | ,5184 | —7,3301 |
| 1299 | ——— | 8 | 3 | 42 20,35 | 3,217 | ,0927 | 8,8191 | ,5074 | —7,1432 |
| 1300 | Draconis | 8 | 2 | 42 21,17 | —1,174 | ,6164 | 9,3456 | — ,0697 | +8,5964 |
| 1301 | Lyræ | 7.8 | 3 | 42 21,59 | +2,228 | +8,1644 | —8,8908 | +0,3479 | +7,8958 |
| 1302 | Draconis | 7 | 3 | 42 38,90 | 0,623 | ,4164 | 9,1414 | 9,7945 | +8,3614 |
| 1303 | Herculis | 8.9 | 3 | 42 43,54 | 2,491 | ,1316 | 8,8546 | 0,3964 | +7,7361 |
| 1304 | Sagittarii | 9 | 3 | 43 19,00 | 3,528 | —,1244 | 8,8413 | 0,5475 | —7,6436 |
| 1305 | Lyræ | 8.9 | 3 | 44 3,67 | 2,211 | —,1837 | 8,8930 | 0,3446 | +7,9217 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | s. | ″ |
| 1261 | 4 | + 0 6 19,57 | + 1,718 | +9,6395 | +6,2418 | +0,2350 | +9,9984 | 77 | +,008 | — ,19 |
| 1262 | 3 | +26 22 12,50 | 1,753 | +9,9196 | +8,5892 | ,2437 | ,9983 | 83 | +,010 | + ,06 |
| 1263 | 5 | +26 21 26,11 | 1,770 | +9,9196 | +8,5935 | ,2480 | ,9983 | 84 | +,012 | + ,08 |
| 1264 | 4 | —24 9 47,71 | 1,799 | —8,0414 | —8,5507 | ,2551 | ,9983 | 81 | +,008 | + ,07 |
| 1265 | 5 | —33 2 42,87 | 1,909 | —9,2528 | —8,7154 | ,2809 | ,9980 | 87 | +,007 | — ,01 |
| 1266 | 2 | —38 49 42,20 | 1,950 | —9,4564 | —8,7852 | +0,2900 | +9,9979 | 90 | +,002 | — ,04 |
| 1267 | 2 | —33 4 48,88 | 2,060 | —9,2528 | —8,7488 | ,3139 | ,9977 | 97 | +,002 | — ,09 |
| 1268 | 4 | —20 57 41,65 | 2,251 | +8,6902 | —8,6042 | ,3525 | ,9972 | 110 | +,029 | — ,12 |
| 1269 | 4 | —17 6 23,00 | 2,310 | +9,0899 | —8,5200 | ,3536 | ,9972 | 111 | +,013 | — ,16 |
| 1270 | 4 | —29 21 50,11 | 2,356 | —9,0374 | —8,7607 | ,3721 | ,9970 | 117 | +,009 | — ,09 |
| 1271 | 3 | —29 36 1,76 | 2,362 | —8,1139 | —8,7649 | +0,3732 | +9,9970 | 118 | —,006 | — ,05 |
| 1272 | 3 | +38 44 43,21 | 2,385 | +9,9818 | +8,8720 | ,3774 | ,9969 | 126 | +,028 | — ,10 |
| 1273 | 4 | —33 36 33,93 | 2,443 | —9,2742 | —8,8291 | ,3879 | ,9967 | 122 | +,008 | — ,02 |
| 1274 | 4 | — 7 27 53,69 | 2,530 | +9,4786 | —8,2148 | ,4030 | ,9965 | 130 | —,018 | — ,03 |
| 1275 | | +11 17 | 2,587 | +9,7924 | +8,4024 | ,4128 | ,9963 | 133 | +,007 | |
| 1276 | 4 | +11 13 24,10 | 2,599 | +9,7917 | +8,4018 | +0,4148 | +9,9963 | 134 | +,017 | + ,01 |
| 1277 | 3 | —30 40 10,67 | 2,680 | —9,1206 | —8,8337 | ,4218 | ,9961 | 136 | +,001 | — ,22 |
| 1278 | 2 | — 2 5 20,71 | 2,697 | +9,5999 | —7,6929 | ,4309 | ,9960 | 138 | +,020 | — ,08 |
| 1279 | 3 | —14 39 0,39 | 2,772 | +9,2304 | —8,5438 | ,4428 | ,9958 | 140 | +,012 | — ,15 |
| 1280 | 4 | — 7 29 12,86 | 2,934 | +9,4786 | —8,2802 | ,4674 | ,9953 | 152 | +,017 | — ,02 |
| 1281 | 4 | —39 53 56,18 | 2,951 | —9,4786 | —8,9749 | +0,4700 | +9,9952 | 148 | —,023 | — ,42 |
| 1282 | 3 | +12 5 14,69 | 2,968 | +9,8000 | +8,4920 | ,4725 | ,9952 | 154 | +,009 | + ,05 |
| 1283 | 3 | +12 6 19,59 | 2,997 | +9,8007 | +8,4968 | ,4767 | ,9951 | 156 | +,013 | — ,03 |
| 1284 | 4 | +65 20 28,96 | 3,112 | +0,0326 | +9,1496 | ,4931 | ,9947 | 173 | +,009 | — ,08 |
| 1285 | 4 | + 8 28 4,57 | 3,149 | +9,7589 | +8,3642 | ,4982 | ,9946 | 163 | +,011 | — ,10 |
| 1286 | 2 | +62 22 43,68 | 3,135 | +0,0318 | +9,1418 | +0,4963 | +9,9946 | 174 | +,054 | + ,04 |
| 1287 | 4 | — 3 23 36,30 | 3,227 | +9,5740 | —7,9779 | ,5089 | ,9943 | 168 | +,002 | — ,06 |
| 1288 | 3 | — 6 25 0,97 | 3,256 | +9,5065 | —8,2590 | ,5127 | ,9942 | 171 | +,019 | — ,14 |
| 1289 | 4 | +63 38 22,03 | 3,325 | +0,0318 | +9,1721 | ,5218 | ,9939 | 190 | —,012 | — ,04 |
| 1290 | 4 | +38 22 6,93 | 3,371 | +9,9786 | +9,0187 | ,5278 | ,9938 | 182 | —,009 | — ,05 |
| 1291 | 4 | —20 19 41,13 | 3,417 | +8,8129 | —8,7726 | +0,5337 | +9,9936 | 180 | +,018 | — ,14 |
| 1292 | 3 | +34 50 24,69 | 3,423 | +9,9633 | +8,9892 | ,5344 | ,9936 | 188 | —,006 | — ,06 |
| 1293 | | +55 53 | 3,480 | +0,0245 | +9,1576 | ,5416 | ,9933 | 198 | +,047 | |
| 1294 | 3 | —26 56 58,53 | 3,538 | —8,7708 | —8,9031 | ,5487 | ,9931 | 191 | +,010 | — ,14 |
| 1295 | 3 | —22 26 48,43 | 3,567 | +8,3979 | —8,8322 | ,5522 | ,9930 | 194 | ,000 | — ,01 |
| 1296 | 2 | — 6 5 29,16 | 3,578 | +9,5132 | —8,2781 | +0,5536 | +9,9930 | 197 | +,012 | — ,06 |
| 1297 | 2 | +28 28 4,28 | 3,601 | +9,9294 | +8,9326 | ,5564 | ,9929 | 200 | +,003 | — ,06 |
| 1298 | 3 | — 9 57 32,51 | 3,658 | +9,4099 | —8,4995 | ,5633 | ,9926 | 201 | +,005 | — ,15 |
| 1299 | 3 | — 6 27 49,03 | 3,698 | +9,5065 | —8,3166 | ,5680 | ,9925 | 204 | +,010 | — ,02 |
| 1300 | 2 | +72 47 49,95 | 3,675 | +0,0282 | +9,2435 | ,5653 | ,9926 | 221 | +,001 | — ,01 |
| 1301 | 2 | +32 35 55,53 | 3,707 | +9,9518 | +8,9974 | +0,5690 | +9,9925 | 207 | +,005 | — ,08 |
| 1302 | 2 | +61 46 1,66 | 3,710 | +0,0298 | +9,2124 | ,5694 | ,9924 | 212 | —,009 | + ,10 |
| 1303 | 2 | +23 42 51,03 | 3,727 | +9,8987 | +8,8739 | ,5714 | ,9924 | 209 | +,017 | — ,08 |
| 1304 | 3 | —19 18 33,29 | 3,779 | +8,9294 | —8,7946 | ,5773 | ,9921 | 208 | +,019 | — ,05 |
| 1305 | 2 | +33 9 56,67 | 3,842 | +9,9542 | +9,0206 | ,5845 | ,9919 | 216 | +,015 | — ,05 |

| No. | Star's name and Mag. | | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | *a* | *b* | *c* | *d* |
| | | | | *h.* *m* *s.* | *s.* | | | | |
| 1306 | Sagittarii | 8 | 3 | 18 45 1,95 | +3,806 | +8,1766 | —8,8753 | +0,5805 | —7,8675 |
| 1307 | Lyræ | 8 | 2 | 47 16,95 | 1,826 | ,2760 | ,9541 | ,2615 | +8,1139 |
| 1308 | Herculis | 7.8 | 4 | 47 23,25 | 2,588 | ,1651 | ,8420 | ,4130 | +7,7026 |
| 1309 | Lyræ | 8 | 2 | 47 59,94 | 1,827 | ,2819 | ,9538 | ,2617 | +8,1199 |
| 1310 | Serpentis | 6.7 | 1 | 48 10,53 | 3,016 | ,1451 | ,8145 | ,4794 | +6,7422 |
| 1311 | ° Draconis *pr.* | 8.9 | 3 | 48 45,46 | 0,877 | +8,4395 | —9,1047 | +9,9430 | +8,3735 |
| 1312 | Sagittarii | 8.9 | 2 | 49 42,27 | 3,769 | ,2138 | 8,8687 | 0,5762 | —7,8892 |
| 1313 | Aquilæ | 8 | 4 | 51 2,88 | 3,137 | ,1705 | ,8136 | ,4965 | —6,8965 |
| 1314 | Segittarii | 8 | 4 | 51 28,40 | 3,633 | ,2112 | ,8502 | ,5603 | —7,8111 |
| 1315 | Aquilæ | 7.8 | 3 | 51 45,64 | 2,721 | ,1903 | ,8275 | ,4347 | +7,6010 |
| 1316 | Aquilæ | 8.9 | 3 | 52 28,84 | 2,727 | +8,1958 | —8,8268 | +0,4357 | +7,5998 |
| 1317 | Antinoi *pr.* | 8 | 5 | 54 18,10 | 3,089 | ,1958 | ,8116 | ,4898 | —6,4077 |
| 1318 | ——— *seq* | 8 | 2 | 54 19,08 | 3,090 | ,1963 | ,8116 | ,4900 | —6,4159 |
| 1319 | Sagittarii | 8.9 | 3 | 54 46,38 | 3,674 | ,2427 | ,8541 | ,5651 | —7,8692 |
| 1320 | Lyræ | 8.9 | 3 | 54 47,74 | 1,689 | ,3629 | ,9754 | ,2276 | +8,2252 |
| 1321 | Aquilæ | 8.9 | 3 | 55 32,37 | 3,091 | +8,2056 | —8,8110 | +0,4901 | —6,4546 |
| 1322 | ——— | 8 | 3 | 55 56,41 | 2,859 | ,2142 | ,8163 | ,4562 | +7,4156 |
| 1323 | Sagittarii | 8 | 3 | 56 5,89 | 3,743 | ,2622 | ,8628 | ,5732 | —7,9269 |
| 1324 | Lyræ | 8.9 | 3 | 56 30,08 | 2,071 | ,3131 | ,9115 | ,3162 | +8,0984 |
| 1325 | Aquilæ | 7 | 3 | 57 20,44 | 2,854 | ,2249 | ,8159 | ,4554 | +7,4380 |
| 1326 | Aquilæ | 8 | 3 | 57 57,18 | 2,851 | +8,2295 | —8,8158 | +0,4550 | +7,4486 |
| 1327 | Lyræ | 7 | 4 | 58 39,01 | 2,307 | ,2930 | ,8741 | ,3630 | +7,9985 |
| 1328 | ——— | 7.8 | 1 | 58 45,95 | 2,063 | ,3315 | ,9121 | ,3145 | +8,1195 |
| 1329 | ——— | 8 | 2 | 59 13,81 | 2,041 | ,3391 | ,9156 | ,3098 | +8,1332 |
| 1330 | Aquilæ | 7.8 | 3 | 59 24,99 | 2,934 | ,2364 | ,8114 | ,4675 | +7,2496 |
| 1331 | Antinoi | 8.9 | 3 | 59 30,54 | 3,195 | +8,2371 | —8,8111 | +0,5045 | —7,2252 |
| 1332 | Sagittarii | 8 | 3 | 59 31,89 | 3,737 | ,2870 | ,8605 | ,5725 | —7,9495 |
| 1333 | Lyræ | 8.9 | 1 | 59 41,35 | 1,602 | ,4154 | ,9888 | ,2047 | +8,2907 |
| 1334 | Vulpeculæ | 7.8 | 2 | 19 0 18,45 | 2,594 | ,2677 | ,8361 | ,4140 | +7,8056 |
| 1335 | Draconis | 7.8 | 2 | 0 54,74 | 0,596 | ,5786 | 9,1435 | 9,7752 | +8,5264 |
| 1336 | Aquilæ | 8 | 3 | 0 56,63 | 2,860 | +8,2504 | —8,8138 | +0,4564 | +7,4502 |
| 1337 | Sagittarii | 7.8 | 2 | 1 37,07 | 3,552 | ,2786 | ,8366 | ,5505 | —7,8249 |
| 1338 | Lyræ | 8 | 3 | 2 39,54 | 2,030 | ,3651 | ,9163 | ,3075 | +8,1631 |
| 1339 | ——— | 7 | 2 | 2 52,64 | 2,076 | ,3590 | ,9087 | ,3172 | +8,1449 |
| 1340 | ——— | 7.8 | 3 | 3 2,54 | 2,316 | ,3227 | ,8710 | ,3647 | +8,0256 |
| 1341 | Aquilæ | 8.9 | 2 | 3 3,30 | 2,892 | +8,2630 | —8,8112 | +0,4612 | +7,3956 |
| 1342 | Sagittarii | 8.9 | 2 | 3 26,43 | 3,553 | ,2910 | ,8359 | ,5506 | —7,8390 |
| 1343 | ——— | 8 | 3 | 3 47,83 | 3,609 | ,2997 | ,8422 | ,5574 | —7,8886 |
| 1344 | ——— | 8.9 | 3 | 4 50,41 | 3,489 | ,2930 | ,8284 | ,5427 | —7,7869 |
| 1345 | Vulpeculæ | 8 | 2 | 4 51,44 | 2,429 | ,3189 | ,8543 | ,3854 | +7,9679 |
| 1346 | Lyræ | 7.8 | | 5 | 2,338 | +8,3334 | —8,8669 | +0,3688 | +8,0275 |
| 1347 | Sagittarii | 8 | 2 | 5 46,66 | 3,536 | ,3044 | ,8328 | ,5485 | —7,8399 |
| 1348 | Aquilæ | 7 | 3 | 6 14,29 | 2,899 | ,2840 | ,8091 | ,4622 | +7,3997 |
| 1349 | Sagittarii | 7.8 | 2 | 6 22,69 | 3,414 | ,2963 | ,8206 | ,5333 | —7,7121 |
| 1350 | Aquilæ | 8 | 3 | 6 58,76 | 2,864 | ,2899 | ,8104 | ,4570 | +7,4866 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1306 | 5 | —29 24 41,86 | +3,933 | --9,0128 | —8,9838 | +0,6947 | +9,9915 | 217 | +,014 | — ,03 |
| 1307 | 3 | +43 30 47,62 | 4,116 | +9,9952 | +9,1504 | ,6145 | ,9904 | 235 | +,020 | — ,04 |
| 1308 | 4 | +20 9 26,11 | 4,127 | +9,8716 | +8,8512 | ,6157 | ,9906 | 234 | +,025 | — ,11 |
| 1309 | 6 | +43 30 55,04 | 4,173 | +9,9948 | +9,1564 | ,6204 | ,9904 | 244 | +,014 | — ,09 |
| 1310 | 4 | + 2 15 55,68 | 4,196 | +9,6749 | +7,9180 | ,6228 | ,9903 | 241 | +,020 | — ,10 |
| 1311 | 3 | +59 11 50,16 | 4,236 | +0,0261 | +9,2589 | +0,6269 | +9,9901 | 248 | —,002 | — ,09 |
| 1312 | 4 | —28 15 56,44 | 4,332 | —8,9031 | —9,0102 | ,6367 | ,9896 | 246 | +,018 | + ,06 |
| 1313 | 4 | — 3 3 9,37 | 4,446 | +9,5821 | —8,0720 | ,6480 | ,9890 | 251 | +,010 | — ,01 |
| 1314 | 2 | —23 27 0,43 | 4,486 | +8,0000 | —8,9497 | ,6519 | ,9888 | 253 | +,017 | + ,02 |
| 1315 | 4 | +14 54 35,95 | 4,503 | +9,8261 | +8,7622 | ,6535 | ,9887 | 259 | +,021 | — ,22 |
| 1316 | 4 | +14 41 22,49 | 4,565 | +9,8241 | +8,7615 | +0,6595 | +9,9884 | 263 | +,013 | — ,20 |
| 1317 | 5 | — 0 56 11,29 | 4,719 | +9,6212 | —7,5837 | ,6738 | ,9876 | 274 | +,007 | — ,20 |
| 1318 | 3 | — 0 56 31,08 | 4,724 | +9,6212 | —7,5919 | ,6743 | ,9876 | 275 | +,006 | — ,10 |
| 1319 | 4 | —25 3 7,61 | 4,764 | —8,2553 | —9,0025 | ,6780 | ,9874 | 277 | +,003 | — ,17 |
| 1320 | 4 | +46 43 43,82 | 4,753 | +0,0017 | +9,2372 | ,6769 | ,9874 | 285 | +,002 | — ,06 |
| 1321 | 4 | — 1 1 47,46 | 4,826 | +9,6201 | —7,6307 | +0,6836 | +9,9870 | 284 | +,010 | — ,12 |
| 1322 | 4 | + 9 8 2,38 | 4,860 | +9,7649 | +8,5861 | ,6867 | ,9868 | 288 | +,010 | — ,10 |
| 1323 | 3 | —27 31 37,53 | 4,877 | —8,7993 | —9,0508 | ,6882 | ,9867 | 286 | +,010 | — ,09 |
| 1324 | 3 | +37 34 39,83 | 4,900 | +9,9708 | +9,1735 | ,6902 | ,9866 | 296 | +,007 | — ,12 |
| 1325 | 4 | + 9 24 1,60 | 4,979 | +9,7679 | +8,6082 | ,6971 | ,9862 | 297 | +,018 | — ,09 |
| 1326 | 3 | + 9 31 37,60 | 5,030 | +9,7694 | +8,6187 | +0,7015 | +9,9859 | 304 | —,001 | — ,16 |
| 1327 | 3 | +30 29 26,68 | 5,086 | +9,9370 | +9,1099 | ,7064 | ,9855 | 309 | +,008 | — ,11 |
| 1328 | 3 | +37 51 48,97 | 5,092 | +9,9717 | +9,1929 | ,7069 | ,9855 | 311 | +,040 | — ,12 |
| 1329 | 2 | +38 29 51,92 | 5,137 | +9,9740 | +9,2029 | ,7107 | ,9852 | 317 | +,005 | — ,11 |
| 1330 | 2 | + 5 54 47,96 | 5,154 | +9,7259 | +8,4233 | ,7121 | ,9851 | 314 | +,012 | ,00 |
| 1331 | 2 | — 5 35 2,78 | 5,161 | +9,5289 | —8,3992 | +0,7131 | +9,9851 | 313 | +,009 | — ,15 |
| 1332 | 2 | —27 22 0,78 | 5,171 | —8,7708 | —9,0740 | ,7135 | ,9850 | 310 | +,011 | + ,02 |
| 1333 | 3 | +48 37 19,14 | 5,171 | +0,0052 | +9,2869 | ,7135 | ,9850 | 319 | +,004 | — ,01 |
| 1334 | 4 | +20 10 53,02 | 5,227 | +9,8692 | +8,9541 | ,7182 | ,9847 | 320 | +,024 | — ,25 |
| 1335 | 2 | +62 27 45,16 | 5,266 | +0,0241 | +9,3673 | ,7215 | ,9845 | 6 | +,008 | + ,06 |
| 1336 | 2 | + 9 6 42,21 | 5,283 | +9,7642 | +8,6208 | +0,7229 | +9,9844 | 322 | —,001 | — ,06 |
| 1337 | 4 | —20 36 30,10 | 5,345 | +8,8261 | —8,9723 | ,7280 | ,9840 | 324 | +,012 | — ,11 |
| 1338 | 4 | +38 53 49,52 | 5,424 | +9,9740 | +9,2303 | ,7343 | ,9835 | 11 | —,008 | — ,05 |
| 1339 | 2 | +37 39 8,65 | 5,440 | +9,9694 | +9,2196 | ,7356 | ,9834 | 13 | —,019 | — ,18 |
| 1340 | 3 | +30 18 18,49 | 5,458 | +9,9345 | +9,1373 | ,7370 | ,9833 | 14 | +,006 | — ,13 |
| 1341 | 4 | + 7 47 50,14 | 5,457 | +9,7497 | +8,5676 | +0,7370 | +9,9833 | 9 | +,015 | + ,41 |
| 1342 | 4 | —20 41 24,23 | 5,497 | +8,8195 | —8,9861 | ,7401 | ,9830 | 10 | —,004 | — ,11 |
| 1343 | 4 | —22 50 4,56 | 5,525 | +8,4150 | —9,0292 | ,7423 | ,9828 | 12 | +,007 | + ,02 |
| 1344 | 4 | —18 10 22,11 | 5,609 | +9,0531 | —8,9407 | ,7489 | ,9823 | 18 | +,006 | + ,02 |
| 1345 | 4 | +26 28 13,44 | 5,609 | +9,9117 | +9,0959 | ,7489 | ,9823 | 23 | +,009 | — ,02 |
| 1346 | 4 | +29 37 17,05 | 5,631 | +9,9299 | +9,1427 | +0,7506 | +9,9821 | 26 | | — ,12 |
| 1347 | 4 | —20 3 50,20 | 5,693 | +8,8976 | —8,9888 | ,7553 | ,9817 | 25 | +,013 | — ,24 |
| 1348 | 3 | + 7 29 19,88 | 5,731 | +9,7443 | +8,5720 | ,7583 | ,9815 | 29 | +,008 | ,00 |
| 1349 | 3 | —15 7 1,02 | 5,743 | +9,2279 | —8,8730 | ,7591 | ,9814 | 28 | +,001 | — ,11 |
| 1350 | 3 | + 9 2 27,59 | 5,788 | +9,7634 | +8,6572 | ,7625 | ,9811 | 31 | +,027 | + ,09 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 1351 | Sagittarii 8.9 | 3 | 19 7 30,31 | +3,568 | +8,3191 | —8,8355 | +0,5524 | —7,8802 |
| 1352 | Antinoi 9 | 2 | 7 42,02 | 3,134 | ,2896 | ,8051 | ,4961 | —6,9986 |
| 1353 | ——— 7 | 3 | 7 45,86 | 3,322 | ,2982 | ,8129 | ,5214 | —7,5885 |
| 1354 | Aquilæ 9.10 | 2 | 8 16,54 | 2,864 | ,2982 | ,8097 | ,4570 | +7,4949 |
| 1355 | ——— 7.8 | 3 | 8 34,36 | 2,927 | ,2970 | ,8067 | ,4664 | +7,3385 |
| 1356 | Antinoi 8 | 2 | 8 48,74 | 3,064 | +8,2960 | —8,8039 | +0,4863 | +5,8737 |
| 1357 | Sagittarii 7.8 | 3 | 8 54,89 | 3,506 | ,3210 | ,8280 | ,5448 | —7,8325 |
| 1358 | Antinoi 8 | 2 | 9 5,07 | 3,333 | ,3072 | ,8129 | ,5228 | —7,6154 |
| 1359 | Aquilæ 10 | 1 | 9 13,43 | 2,864 | ,3039 | ,8091 | ,4570 | +7,5014 |
| 1360 | Sagittarii 7.8 | 2 | 9 35,87 | 4,101 | ,4109 | ,9131 | ,6129 | —8,2101 |
| 1361 | Antinoi 8 | 3 | 9 54,64 | 3,321 | +8,3112 | —8,8116 | +0,5213 | —7,6002 |
| 1362 | Aquilæ 7 | 3 | 10 17,07 | 2,960 | ,3064 | ,8046 | ,4713 | +7,2335 |
| 1363 | Sagittarii 7.8 | 3 | 10 43,41 | 3,648 | ,3490 | ,8437 | ,5620 | —7,9667 |
| 1364 | Lyræ 7.8 | 3 | 12 2,20 | 2,344 | ,3761 | ,8630 | ,3700 | +8,0706 |
| 1365 | Aquilæ 7.8 | 3 | 12 12,85 | 2,969 | ,3175 | ,8032 | ,4726 | +7,2106 |
| 1366 | Aquilæ 8 | 3 | 12 25,03 | 3,009 | +8,3178 | —8,8022 | +0,4784 | +6,9828 |
| 1367 | ——— 8.9 | 3 | 12 36,28 | 2,927 | ,3212 | ,8043 | ,4664 | +7,3650 |
| 1368 | Antinoi 7.8 | 2 | 12 38,13 | 3,101 | ,3190 | ,8017 | ,4915 | —6,7272 |
| 1369 | Sagittarii 8 | 2 | 13 0,34 | 3,513 | ,3464 | ,8265 | ,5457 | —7,8659 |
| 1370 | Antinoi 1.10 | 2 | 13 25,30 | 3,209 | ,3258 | ,8038 | ,5064 | —7,3684 |
| 1371 | Draconis 7.8 | 2 | 13 47,56 | 0,352 | +8,6980 | —9,1748 | +9,5465 | +8,6553 |
| 1372 | Anseris 8 | 3 | 13 54,27 | 2,559 | ,3583 | 8,8333 | 0,4081 | +7,9302 |
| 1373 | Antinoi 8 | 2 | 13 57,78 | 3,066 | ,3261 | 8,8008 | 0,4866 | +5,4888 |
| 1374 | ——— 7 | 3 | 14 6,61 | 3,314 | ,3353 | 8,8087 | 0,5203 | —7,6159 |
| 1375 | Draconis 9 | 1 | 14 32,10 | 0,573 | ,6732 | 9,1449 | 9,7581 | +8,6235 |
| 1376 | Sagittarii 8 | 2 | 14 54,67 | 3,509 | +8,3567 | —8,8251 | +0,5452 | —7,8744 |
| 1377 | Aquilæ 8 | 2 | 14 59,66 | 2,883 | ,3367 | ,8047 | ,4598 | +7,4961 |
| 1378 | Antinoi 8 | 3 | 15 25,15 | 3,283 | ,3405 | ,8060 | ,5163 | —7,5641 |
| 1379 | Sagittarii 7.8 | 3 | 16 5,62 | 3,402 | ,3531 | ,8141 | ,5317 | —7,7613 |
| 1380 | Aquilæ 8 | 2 | 16 35,76 | 3,034 | ,3411 | ,7992 | ,4820 | +6,7638 |
| 1381 | Antinoi 8.9 | 3 | 16 49,29 | 3,157 | +8,3431 | —8,8000 | +0,4993 | —7,1921 |
| 1382 | ——— 8 | 3 | 17 6,15 | 3,121 | ,3442 | ,7991 | ,4943 | —6,9631 |
| 1383 | Anseris 7 | 3 | 17 33,99 | 2,618 | ,3720 | ,8244 | ,4180 | +7,8983 |
| 1384 | Cygni 7 | 2 | 18 12,65 | 2,148 | ,4420 | ,8909 | ,3320 | +8,2128 |
| 1385 | Aquilæ 8.9 | 3 | 18 51,30 | 3,119 | ,3534 | ,7979 | ,4940 | —6,9632 |
| 1386 | Cygni 7.8 | 2 | 19 9,43 | 2,489 | +8,3963 | —8,8392 | +0,3960 | +8,0182 |
| 1387 | Anseris 7 | 2 | 19 18,18 | 2,621 | ,3810 | ,8231 | ,4185 | +7,9063 |
| 1388 | Sagittarii 8 | 2 | 19 59,08 | 3,566 | ,3911 | ,8285 | ,5522 | —7,9581 |
| 1389 | Cygni 7.8 | 3 | 20 3,56 | 2,161 | ,4503 | ,8881 | ,3346 | +8,2181 |
| 1390 | Aquilæ 6.7 | 3 | 20 6,83 | 3,010 | ,3601 | ,7971 | ,4786 | +7,0196 |
| 1391 | Cygni 7.8 | 3 | 20 14,44 | 1,576 | +8,5510 | —8,9880 | +0,1976 | +8,4348 |
| 1392 | ——— 8 | 4 | 21 47,00 | 2,152 | ,4610 | 8,8887 | ,3328 | +8,2323 |
| 1393 | ——— 8 | 3 | 22 29,48 | 2,414 | ,4241 | 8,8475 | ,3827 | +8,0899 |
| 1394 | Draconis 7 | 3 | 22 48,47 | 1,091 | ,6448 | 9,0670 | ,0378 | +8,5718 |
| 1395 | Cygni 8 | | 23 | 1,587 | ,5612 | 8,9854 | ,2006 | +8,4473 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1351 | 3 | −21 21 19,05 | +5,838 | +8,7482 | −9,0255 | +0,7662 | +9,9807 | 32 | +,012 | − ,04 |
| 1352 | 3 | − 2 56 49,60 | 5,849 | +9,5843 | −8,1742 | ,7671 | ,9807 | 34 | +,017 | + ,01 |
| 1353 | 3 | −11 15 20,23 | 5,860 | +9,3802 | −8,7598 | ,7679 | ,9806 | 33 | +,027 | − ,05 |
| 1354 | 3 | + 9 2 40,16 | 5,899 | +9,7627 | +8,6655 | ,7708 | ,9803 | 40 | +,008 | − ,07 |
| 1355 | 2 | + 6 18 48,07 | 5,921 | +9,7292 | +8,5119 | ,7724 | ,9802 | 44 | +,014 | − ,03 |
| 1356 | 2 | + 0 12 40,90 | 5,944 | +9,6415 | +7,0498 | +0,7741 | +9,9800 | 46 | +,003 | − ,17 |
| 1357 | 3 | −18 59 7,35 | 5,955 | +9,0000 | −8,9844 | ,7749 | ,9799 | 43 | +,022 | − ,01 |
| 1358 | 2 | −11 44 5,51 | 5,972 | +9,3636 | −8,7824 | ,7761 | ,9798 | 47 | +,001 | − ,05 |
| 1359 | | + 9 3 | 5,977 | +9,7627 | +8,6720 | ,7765 | ,9798 | 49 | +,018 | |
| 1360 | 2 | −39 2 22,03 | 6,016 | −9,4216 | −9,2765 | ,7793 | ,9795 | 48 | +,001 | − ,11 |
| 1361 | 3 | −11 13 15,50 | 6,038 | +9,3820 | −8,7679 | +0,7809 | +9,9793 | 53 | +,015 | − ,01 |
| 1362 | 3 | + 4 50 17,52 | 6,066 | +9,7101 | +8,4080 | ,7829 | ,9791 | 58 | +,019 | − ,17 |
| 1363 | 3 | −24 30 4,94 | 6,111 | +5,8451 | −9,1018 | ,7861 | ,9788 | 59 | +,030 | − ,26 |
| 1364 | 2 | +29 39 41,07 | 6,211 | +9,9289 | +9,1857 | ,7931 | ,9781 | 78 | −,002 | − ,16 |
| 1365 | 3 | + 4 29 0,23 | 6,227 | +9,7050 | +8,3853 | ,7943 | ,9780 | 75 | +,013 | − ,28 |
| 1366 | 3 | + 2 38 17,51 | 6,244 | +9,6785 | +8,1584 | +0,7954 | +9,9778 | 76 | +,007 | − ,07 |
| 1367 | 3 | + 6 20 55,84 | 6,260 | +9,7292 | +8,5384 | ,7966 | ,9777 | 80 | −,003 | − ,08 |
| 1368 | 3 | − 1 28 36,12 | 6,266 | +9,6128 | −7,9032 | ,7970 | ,9777 | 79 | +,017 | − ,09 |
| 1369 | 3 | −19 19 36,08 | 6,299 | +8,9777 | −9,0168 | ,7993 | ,9774 | 82 | +,020 | + ,04 |
| 1370 | 2 | − 6 21 4,95 | 6,326 | +9,5132 | −8,5418 | ,8012 | ,9772 | 83 | +,006 | − ,26 |
| 1371 | 2 | +64 58 48,48 | 6,343 | +0,0183 | +9,4575 | +0,8023 | +9,9771 | 98 | +,015 | − ,07 |
| 1372 | | +21 53 | 6,365 | +9,8791 | +9,0735 | ,8038 | ,9769 | 88 | +,014 | |
| 1373 | 2 | + 0 4 28,05 | 6,373 | +9,6385 | +6,6649 | ,8043 | ,9769 | 87 | +,012 | − ,09 |
| 1374 | 3 | −11 0 38,73 | 6,388 | +9,3892 | −8,7840 | ,8053 | ,9767 | 86 | +,013 | − ,10 |
| 1375 | 3 | +63 5 52,99 | 6,409 | +0,0174 | +9,4551 | ,8068 | ,9766 | 101 | +,019 | − ,01 |
| 1376 | 3 | −19 14 18,20 | 6,454 | +8,9912 | −9,0256 | +0,8098 | +9,9762 | 92 | +,002 | − ,01 |
| 1377 | 2 | + 8 17 56,74 | 6,459 | +9,7528 | +8,6676 | ,8102 | ,9762 | 95 | +,004 | − ,10 |
| 1378 | 1 | − 9 38 58,28 | 6,492 | +9,4314 | −8,7340 | ,8124 | ,9759 | 97 | +,018 | − ,24 |
| 1379 | 3 | −14 50 29,21 | 6,553 | +9,2480 | −8,9227 | ,8164 | ,9754 | 100 | +,013 | − ,13 |
| 1380 | 2 | + 1 31 14,14 | 6,591 | +9,6618 | +7,9397 | ,8190 | ,9751 | 106 | +,014 | + ,06 |
| 1381 | 4 | − 4 2 53,95 | 6,608 | +9,5647 | −8,3671 | +0,8201 | +9,9750 | 109 | −,011 | − ,16 |
| 1382 | 5 | − 2 22 44,66 | 6,636 | +9,5966 | −8,1388 | ,8219 | ,9748 | 111 | +,014 | − ,11 |
| 1383 | 3 | +19 37 18,66 | 6,669 | +9,8609 | +9,0484 | ,8240 | ,9745 | 116 | +,014 | − ,03 |
| 1384 | 4 | +36 7 56,60 | 6,718 | +9,9571 | +9,2960 | ,8272 | ,9741 | 121 | −,001 | + ,08 |
| 1385 | 3 | − 2 20 39,06 | 6,778 | +9,5977 | −8,1389 | ,8311 | ,9736 | 122 | +,013 | − ,09 |
| 1386 | 3 | +24 43 49,73 | 6,800 | +9,8965 | +9,1524 | +0,8325 | +9,9734 | 127 | +,007 | − ,14 |
| 1387 | 1 | +19 34 11,94 | 6,811 | +9,8603 | +9,0565 | ,8332 | ,9733 | 128 | +,002 | − ,24 |
| 1388 | 2 | −21 40 4,21 | 6,877 | +8,7559 | −9,1024 | ,8374 | ,9728 | 130 | +,005 | − ,01 |
| 1389 | 3 | +35 51 45,21 | 6,872 | +9,9552 | +9,3029 | ,8371 | ,9728 | 134 | +,019 | − ,10 |
| 1390 | 2 | + 2 36 9,55 | 6,882 | +9,6785 | +8,1952 | ,8377 | ,9727 | 133 | +,003 | − ,09 |
| 1391 | 3 | +49 55 10,35 | 6,882 | +9,9992 | +9,4196 | +0,8377 | +9,9727 | 140 | +,012 | − ,26 |
| 1392 | 4 | +36 11 58,72 | 7,014 | +9,9557 | +9,3153 | ,8460 | ,9716 | 149 | ,000 | ,00 |
| 1393 | 3 | +27 35 40,94 | 7,074 | +9,9133 | +9,2135 | ,8497 | ,9711 | 153 | +,007 | − ,08 |
| 1394 | 4 | +57 41 55,92 | 7,090 | +0,0099 | +9,4757 | ,8507 | ,9710 | 156 | +,004 | − ,03 |
| 1395 | 2 | +49 48 40,10 | 7,063 | +9,9978 | +9,4301 | ,8490 | ,9712 | 154 | | − ,10 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 1396 | Sagittarii 8 | 2 | 19 24 1,95 | +3,496 | +8,4037 | —8,8181 | +0,5436 | —7,9153 |
| 1397 | Albireo *seq.* 7 | 5 | 24 8,80 | 2,415 | ,4321 | 8,8465 | ,3829 | +8,0985 |
| 1398 | Cygni 7.8 | 3 | 24 36,73 | 1,376 | ,6088 | 9,0205 | ,1386 | +8,5147 |
| 1399 | ——— 8 | 3 | 24 50,84 | 2,165 | ,4746 | 8,8848 | ,3355 | +8,2428 |
| 1400 | ——— 7.8 | 2 | 25 30,31 | 2,408 | ,4402 | 8,8466 | ,3817 | +8,1108 |
| 1401 | Anseris 8 | 2 | 25 53,61 | 2,599 | +8,4172 | —8,8214 | +0,4148 | +7,9649 |
| 1402 | Antinoi 8 | 4 | 26 47,70 | 3,302 | ,4004 | 8,7995 | ,5188 | —7,6698 |
| 1403 | Aquilæ 8 | 3 | 26 52,84 | 2,982 | ,3941 | 8,7928 | ,4745 | +7,2341 |
| 1404 | Cygni 7.8 | 1 | 27 10,86 | 1,243 | ,6442 | 9,0418 | ,0945 | +8,5618 |
| 1405 | ——— 9 | | 27 | 1,280 | ,6388 | 9,0357 | ,1072 | +8,5535 |
| 1406 | Aquilæ 7.8 | 3 | 27 36,81 | 3,073 | +8,3965 | —8,7912 | +0,4874 | —6,0064 |
| 1407 | Antinoi 7.8 | 2 | 27 37,46 | 3,070 | ,3965 | ,7912 | ,4871 | —5,6384 |
| 1408 | ——— 8 | 3 | 27 38,36 | 3,136 | ,3975 | ,7918 | ,4964 | —7,1375 |
| 1409 | ——— 8 | 2 | 27 47,18 | 3,304 | ,4052 | ,7988 | ,5190 | —7,6773 |
| 1410 | Aquilæ 8 | 3 | 28 46,70 | 2,912 | ,4056 | ,7937 | ,4642 | +7,5036 |
| 1411 | Antinoi 8 | 1 | 28 51,22 | 3,086 | +8,4025 | —8,7903 | +0,4894 | —6,5738 |
| 1412 | ——— 7.8 | 3 | 29 8,40 | 3,078 | ,4037 | ,7901 | ,4883 | —6,3298 |
| 1413 | ——— 8 | 3 | 29 46,99 | 3,086 | ,4065 | ,7896 | ,4894 | —6,5778 |
| 1414 | ——— 8 | 3 | 29 58,31 | 3,068 | ,4074 | ,7894 | ,4869 | —4,8711 |
| 1415 | Cygni 7 | 2 | 30 4,70 | 2,208 | ,4935 | ,8752 | ,3440 | +8,2505 |
| 1416 | Cygni 6 | 2 | 30 5,05 | 1,550 | +8,6074 | —8,9895 | +0,1903 | +8,4927 |
| 1417 | Sagittarii 7.8 | 2 | 30 30,22 | 3,539 | ,4397 | ,8186 | ,5489 | —7,9924 |
| 1418 | ——— 9 | 2 | 30 30,85 | 3,608 | ,4483 | ,8272 | ,5573 | —8,0525 |
| 1419 | Aquilæ 8 | 2 | 30 39,02 | 2,937 | ,4128 | ,7913 | ,4679 | +7,4368 |
| 1420 | ——— 8 | 2 | 30 39,41 | 2,911 | ,4142 | ,7923 | ,4640 | +7,5152 |
| 1421 | Aquilæ 7.8 | 2 | 30 51,67 | 2,806 | +8,4209 | —8,7983 | +0,4481 | +7,7388 |
| 1422 | Antinoi 9 | 1 | 30 53,80 | 3,107 | ,4118 | 8,7889 | +0,4923 | —6,9169 |
| 1423 | ——— 8 | 2 | 31 12,05 | 3,248 | ,4180 | 8,7930 | +0,5116 | —7,5792 |
| 1424 | Draconis 7.8 | 1 | 31 37,33 | —0,170 | ,8633 | 9,2376 | —9,2304 | +8,8340 |
| 1425 | Aquilæ 8 | 2 | 31 42,41 | +2,907 | ,4189 | 8,7917 | +0,4634 | +7,5327 |
| 1426 | Aquilæ 8 | 4 | 32 1,29 | 2,913 | +8,4201 | —8,7912 | +0,4643 | +7,5182 |
| 1427 | Sagittarii 7.8 | 2 | 32 44,40 | 3,896 | ,5017 | ,8686 | ,5906 | —8,2495 |
| 1428 | ——— 8 | 3 | 32 50,89 | 2,680 | ,4409 | ,8078 | ,4281 | +7,9198 |
| 1429 | Sagittæ 9 | 1 | 33 38,64 | 2,678 | ,4446 | ,8073 | ,4278 | +7,9255 |
| 1430 | ——— 8 | 3 | 34 5,55 | 2,674 | ,4471 | ,8074 | ,4272 | +7,9328 |
| 1431 | Antinoi 8.9 | 2 | 34 9,09 | 3,307 | +8,4342 | —8,7942 | +0,5194 | —7,7167 |
| 1432 | Cygni 7.8 | 3 | 34 18,09 | 2,331 | ,4934 | ,8531 | ,3675 | +8,2057 |
| 1433 | Antinoi 8 | 3 | 34 27,52 | 2,970 | ,4286 | ,7872 | ,4728 | +7,3296 |
| 1434 | Aquilæ 7.8 | 2 | 34 50,35 | 2,896 | ,4332 | ,7897 | ,4618 | +7,5767 |
| 1435 | Antinoi 8 | | 35 | 3,318 | ,4416 | ,7937 | ,5209 | —7,7437 |
| 1436 | Sagittæ 8.9 | 2 | 35 18,86 | 2,670 | +8,4528 | —8,8069 | +0,4265 | +7,9432 |
| 1437 | ——— 8.9 | 4 | 35 28,19 | 2,680 | ,4526 | ,8047 | ,4281 | +7,9332 |
| 1438 | Aquilæ 8.9 | 3 | 36 17,69 | 2,914 | ,4386 | ,7877 | ,4645 | +7,5377 |
| 1439 | ——— 8 | 2 | 36 25,08 | 2,809 | ,4454 | ,7937 | ,4485 | +7,7632 |
| 1440 | ——— | | 36 46,72 | 2,888 | ,4418 | ,7885 | ,4606 | +7,6038 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1396 | 4 | —18 57 33,53 | +7,205 | +9,0334 | —9,0672 | +0,8576 | +9,9700 | 155 | +,026 | — ,11 |
| 1397 | 4 | +27 37 32,23 | 7,205 | +9,9127 | +9,2220 | ,8576 | ,9700 | 162 | +,012 | — ,03 |
| 1398 | 4 | +53 38 0,16 | 7,243 | +0,0030 | +9,4638 | ,8599 | ,9696 | 167 | +,022 | — ,02 |
| 1399 | 3 | +35 53 16,07 | 7,264 | +9,9533 | +9,3274 | ,8612 | ,9694 | 164 | +,010 | + ,02 |
| 1400 | 3 | +27 55 18,17 | 7,319 | +9,9133 | +9,2331 | ,8644 | ,9689 | 169 | +,009 | — ,02 |
| 1401 | 3 | +20 39 23,98 | 7,351 | +9,8645 | +9,1121 | +0,8664 | +9,9686 | 172 | +,005 | — ,08 |
| 1402 | 3 | —10 43 10,79 | 7,427 | +9,4048 | —8,8383 | ,8708 | ,9679 | 177 | +,012 | — ,01 |
| 1403 | 3 | + 3 57 32,84 | 7,433 | +9,6964 | +8,4091 | ,8711 | ,9679 | 178 | +,011 | — ,15 |
| 1404 | 2 | +55 47 25,36 | 7,449 | +0,0052 | +9,4877 | ,8721 | ,9677 | 189 | +,013 | — ,01 |
| 1405 | 1 | +55 14 27,35 | 7,460 | +0,0043 | +9,4854 | ,8727 | ,9676 | 190 | | — ,24 |
| 1406 | 2 | — 0 14 54,50 | 7,492 | +9,6345 | —7,1825 | +0,8746 | +9,9673 | 182 | +,019 | — ,39 |
| 1407 | 2 | — 0 6 26,83 | 7,492 | +9,6345 | —6,8145 | ,8746 | ,9673 | 183 | +,011 | — ,18 |
| 1408 | 3 | — 3 9 45,02 | 7,498 | +9,5832 | —8,3129 | ,8749 | ,9673 | 181 | +,016 | — ,12 |
| 1409 | 2 | —10 47 20,89 | 7,508 | +9,4031 | —8,8456 | ,8755 | ,9672 | 185 | —,010 | — ,37 |
| 1410 | 2 | + 7 11 31,52 | 7,590 | +9,7380 | +8,6763 | ,8802 | ,9664 | 195 | +,006 | + ,03 |
| 1411 | 4 | — 0 51 9,96 | 7,595 | +9,6243 | —7,7498 | +0,8805 | +9,9663 | 194 | +,005 | — ,04 |
| 1412 | 3 | — 0 29 32,64 | 7,616 | +9,6304 | —7,5059 | ,8817 | ,9661 | 198 | +,003 | — ,08 |
| 1413 | 3 | — 0 51 11,69 | 7,665 | +9,6232 | —7,7538 | ,8845 | ,9657 | 200 | +,015 | — ,04 |
| 1414 | 3 | — 0 1 17,05 | 7,681 | +9,6375 | —6,0472 | ,8854 | ,9655 | 202 | +,015 | — ,16 |
| 1415 | 1 | +34 51 6,91 | 7,686 | +9,9464 | +9,3407 | ,8857 | ,9655 | 207 | +,008 | — ,12 |
| 1416 | 2 | +50 53 16,12 | 7,681 | +9,9961 | +9,4732 | +0,8854 | +9,9655 | 211 | +,017 | — ,14 |
| 1417 | 2 | —20 55 0,42 | 7,730 | +8,8808 | —9,1389 | ,8881 | ,9650 | 205 | +,007 | — ,15 |
| 1418 | 2 | —23 41 57,00 | 7,730 | +8,4150 | —9,1903 | ,8881 | ,9650 | 204 | +,003 | + ,02 |
| 1419 | | + 6 3 | 7,735 | +9,7234 | +8,6105 | ,8884 | ,9650 | 208 | +,016 | |
| 1420 | 1 | + 7 14 56,41 | 7,740 | +9,7372 | +8,6878 | ,8887 | ,9649 | 209 | +,008 | — ,01 |
| 1421 | 2 | +11 59 31,18 | 7,751 | +9,7896 | +8,9053 | +0,8894 | +9,9648 | 212 | +,020 | — ,05 |
| 1422 | 1 | — 1 50 9,34 | 7,756 | +9,6074 | —8,0927 | ,8897 | ,9648 | 210 | +,014 | — ,10 |
| 1423 | 2 | — 8 20 25,29 | 7,789 | +9,4698 | —8,7506 | ,8915 | ,9644 | 213 | +,012 | — ,17 |
| 1424 | 2 | +69 10 17,53 | 7,800 | +0,0065 | +9,5609 | ,8921 | ,9643 | 227 | —,015 | — ,09 |
| 1425 | 2 | + 7 28 21,95 | 7,821 | +9,7404 | +8,7050 | ,8932 | ,9641 | 216 | +,011 | — ,01 |
| 1426 | 3 | + 7 11 44,72 | 7,848 | +9,7372 | +8,6908 | +0,8947 | +9,9639 | 217 | +,008 | — ,05 |
| 1427 | 3 | —34 1 28,60 | 7,912 | —9,1875 | —9,3441 | ,8983 | ,9632 | 218 | +,017 | — ,06 |
| 1428 | 2 | +17 31 29,96 | 7,912 | +9,8395 | +9,0752 | ,8983 | ,9632 | 225 | +,010 | — ,17 |
| 1429 | 3 | +17 37 4,56 | 7,976 | +9,8395 | +9,0808 | ,9018 | ,9626 | 228 | +,004 | — ,07 |
| 1430 | 3 | +17 48 56,65 | 8,013 | +9,8414 | +9,0875 | ,9038 | ,9622 | 234 | +,011 | — ,20 |
| 1431 | 4 | —11 3 14,51 | 8,019 | +9,3979 | —8,8847 | +0,9041 | +9,9621 | 231 | +,025 | — ,19 |
| 1432 | 3 | +31 1 48,76 | 8,024 | +9,9268 | +9,3147 | ,9044 | ,9621 | 239 | +,013 | + ,03 |
| 1433 | 2 | + 4 34 21,08 | 8,037 | +9,7041 | +8,5043 | ,9051 | ,9619 | 235 | +,016 | — ,09 |
| 1434 | 4 | + 7 59 55,34 | 8,072 | +9,7458 | +8,7486 | ,9070 | ,9616 | 241 | +,009 | — ,09 |
| 1435 | 3 | —11 34 44,47 | 8,141 | +9,2838 | —8,9109 | ,9107 | ,9608 | 245 | | — ,03 |
| 1436 | 3 | +18 0 16,91 | 8,110 | +9,8426 | +9,0974 | +0,9090 | +9,9612 | 246 | +,017 | — ,05 |
| 1437 | 2 | +17 35 10,47 | 8,126 | +9,8395 | +9,0884 | ,9099 | ,9610 | 247 | +,004 | — ,05 |
| 1438 | 2 | + 7 12 3,26 | 8,190 | +9,7372 | +8,7103 | ,9133 | ,9603 | 248 | +,007 | — ,03 |
| 1439 | 3 | +11 59 14,10 | 8,200 | +9,7882 | +8,9297 | ,9138 | ,9602 | 250 | +,004 | + ,06 |
| 1440 | 3 | + 8 20 20,71 | 8,227 | +9,7490 | +8,7753 | ,9152 | ,9599 | 252 | +,019 | — ,10 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h. m. s.* | *s.* | | | | |
| 1441 | Aquilæ 7 | 2 | 19 36 54,91 | +2,842 | +8,4451 | —8,7911 | +0,4536 | +7,7071 |
| 1442 | 16 *c* Cygni *seq.* 7 | 2 | 37 29,96 | 1,610 | ,6333 | ,9766 | ,2068 | +8,5185 |
| 1443 | ——— 7 | 3 | 37 58,97 | 2,121 | ,5450 | ,8859 | ,3265 | +8,3337 |
| 1444 | Aquilæ 7.8 | 3 | 38 46,42 | 2,852 | ,4522 | ,7889 | ,4551 | +7,6948 |
| 1445 | Sagittæ 9 | 2 | 38 47,59 | 2,682 | ,4664 | ,8030 | ,4285 | +7,9477 |
| 1446 | Sagittarii 7.8 | 3 | 39 18,66 | 4,169 | +8,5786 | —8,9122 | +0,6200 | —8,4062 |
| 1447 | Cygni *seq.* 7.8 | 3 | 39 39,68 | 2,198 | ,5392 | 8,8718 | ,3402 | +8,3052 |
| 1448 | Aquilæ 7 | 3 | 39 41,25 | 2,953 | ,4512 | 8,7852 | ,4703 | +7,4235 |
| 1449 | Sagittæ 7.8 | 2 | 39 43,70 | 2,654 | ,4731 | 8,8071 | ,4239 | +7,9809 |
| 1450 | Cygni 7.8 | 2 | 40 18,48 | 1,229 | ,7110 | 9,0407 | ,0895 | +8,6329 |
| 1451 | Sagittæ 7.8 | 2 | 41 22,54 | 2,633 | +8,4825 | —8,8063 | +0,4204 | +8,0128 |
| 1452 | Antinoi 7.8 | 3 | 41 28,57 | 3,014 | ,4570 | 8,7801 | ,4791 | +7,1053 |
| 1453 | Cygni 7.8 | 3 | 41 25,05 | 1,313 | ,7023 | 9,0264 | ,1183 | +8,6181 |
| 1454 | Sagittarii 7.8 | 2 | 42 2,82 | 3,498 | ,4849 | 8,8051 | ,5438 | —8,0109 |
| 1455 | Cygni 7.8 | 3 | 43 25,96 | 2,291 | ,5398 | 8,8538 | ,3600 | +8,2745 |
| 1456 | Vulpeculæ 7 | 2 | 43 39,45 | 2,639 | +8,4910 | —8,8038 | +0,4214 | +8,0173 |
| 1457 | Aquilæ 8 | 3 | 44 26,58 | 2,858 | ,4749 | ,7838 | ,4561 | +7,7124 |
| 1458 | Sagittæ 8 | 2 | 44 37,15 | 2,692 | ,4893 | ,7972 | ,4301 | +7,9658 |
| 1459 | ——— 7.8 | 2 | 45 20,55 | 2,671 | ,4943 | ,7988 | ,4267 | +7,9920 |
| 1460 | ——— 7.8 | 5 | 45 35,04 | 2,693 | ,4928 | ,7963 | ,4302 | +7,9685 |
| 1461 | 57 Aquilæ *seq.* 7 | 3 | 45 45,23 | 3,250 | +8,4784 | —8,7808 | +0,5119 | —7,6556 |
| 1462 | ——— 8 | 1 | 45 57,43 | 2,831 | ,4823 | ,7839 | ,4519 | +7,7706 |
| 1463 | Vulpeculæ *seq.* 7 | 2 | 46 11,21 | 2,635 | ,5017 | ,8021 | ,4208 | +8,0340 |
| 1464 | Aquilæ 7.8 | 3 | 47 27,94 | 2,825 | ,4884 | ,7830 | ,4510 | +7,7901 |
| 1465 | Vulpeculæ 7 | 2 | 47 33,58 | 2,540 | ,5189 | ,8130 | ,4048 | +8,1265 |
| 1466 | Sagittæ 8.9 | 3 | 48 39,80 | 2,694 | +8,5044 | —8,7935 | +0,4304 | +7,9818 |
| 1467 | ——— 8 | 3 | 50 5,39 | 2,652 | ,5146 | ,7969 | ,4236 | +8,0352 |
| 1468 | Aquilæ 8 | 2 | 50 10,02 | 2,838 | ,4978 | ,7795 | ,4530 | +7,7777 |
| 1469 | ——— 8.9 | 4 | 50 10,56 | 2,834 | ,4981 | ,7797 | ,4524 | +7,7851 |
| 1470 | Sagittæ 8 | 3 | 50 18,74 | 2,713 | ,5090 | ,7901 | ,4334 | +7,9678 |
| 1471 | Aquilæ 7.8 | 3 | 50 34,69 | 2,913 | +8,4949 | —8,7748 | +0,4643 | +7,6097 |
| 1472 | Sagittarii 9 | 3 | 50 45,09 | 3,529 | ,5226 | ,8015 | ,5476 | —8,0825 |
| 1473 | Aquilæ 8 | 3 | 50 51,55 | 2,940 | ,4947 | ,7733 | ,4683 | +7,5258 |
| 1474 | Sagittarii 8 | 3 | 51 3,61 | 3,571 | ,5293 | ,8067 | ,5528 | —8,1224 |
| 1475 | Aquilæ 9 | 3 | 51 5,91 | 2,835 | ,5014 | ,7793 | ,4525 | +7,7871 |
| 1476 | Aquilæ 8 | 2 | 52 13,29 | 2,926 | +8,5000 | —8,7725 | +0,4663 | +7,5766 |
| 1477 | ——— 8 | 3 | 52 52,88 | 2,912 | ,5031 | ,7725 | ,4642 | +7,6216 |
| 1478 | ——— 8.9 | 3 | 52 55,74 | 2,924 | ,5027 | ,7719 | ,4660 | +7,5866 |
| 1479 | Sagittarii 7.8 | 3 | 53 8,40 | 3,997 | ,6057 | ,8737 | ,6017 | —8,3980 |
| 1480 | Vulpeculæ 8 | 1 | 53 14,95 | 2,593 | ,5333 | ,8012 | ,4138 | +8,1069 |
| 1481 | Sagittarii 8 | 3 | 53 45,74 | 3,465 | +8,5261 | —8,7913 | +0,5397 | —8,0317 |
| 1482 | Antinoi 8 | 3 | 55 2,28 | 3,075 | ,5067 | ,7666 | ,4878 | —6,3129 |
| 1483 | Capricorni 8 | 3 | 56 1,71 | 3,421 | ,5296 | ,7844 | ,5341 | —7,9910 |
| 1484 | ——— 8 | 3 | 56 26,54 | 3,400 | ,5286 | ,7819 | ,5315 | —7,9654 |
| 1485 | Sagittæ 6.7 | 3 | 56 32,78 | 2,718 | ,5307 | ,7836 | ,4342 | +7,9887 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | s. | ″ |
| 1441 | 3 | +10 31 22,87 | + 8,237 | +9,7738 | +8,8758 | +0,9158 | +9,9598 | 253 | —,005 | + ,13 |
| 1442 | | +50 8 | 8,280 | +9,9899 | +9,5013 | ,9180 | ,9594 | 262 | +,003 | |
| 1443 | 4 | +37 55 57,69 | 8,317 | +9,9547 | +9,4067 | ,9200 | ,9590 | 263 | +,005 | — ,04 |
| 1444 | 3 | +10 3 49,03 | 8,386 | +9,7671 | +8,8641 | ,9236 | ,9582 | 268 | +,004 | — ,22 |
| 1445 | 2 | +17 37 48,45 | 8,386 | +9,8376 | +9,1029 | ,9236 | ,9582 | 270 | +,017 | — ,08 |
| 1446 | 3 | —42 15 44,75 | 8,434 | —9,4609 | —9,4517 | +0,9260 | +9,9577 | 266 | —,003 | + ,01 |
| 1447 | 2 | +35 41 33,04 | 8,449 | +9,9455 | +9,3909 | ,9268 | ,9575 | 277 | +,008 | — ,13 |
| 1448 | 3 | + 5 22 55,40 | 8,460 | +9,7143 | +8,5977 | ,9274 | ,9594 | 272 | ,000 | — ,14 |
| 1449 | 3 | +18 47 0,37 | 8,460 | +9,8482 | +9,1332 | ,9274 | ,9594 | 274 | +,039 | — ,04 |
| 1450 | 3 | +56 38 55,38 | 8,497 | +9,9978 | +9,5492 | ,9293 | ,9570 | 284 | +,024 | — ,03 |
| 1451 | 3 | +19 48 36,97 | 8,592 | +9,8537 | +9,1623 | +0,9341 | +9,9559 | 287 | +,023 | — ,17 |
| 1452 | 3 | + 2 32 53,05 | 8,602 | +9,6758 | +8,2809 | ,9346 | ,9558 | 285 | +,007 | ,00 |
| 1453 | 2 | +55 26 56,96 | 8,587 | +9,9956 | +9,5477 | ,9338 | ,9560 | 292 | +,025 | — ,15 |
| 1454 | 4 | —19 37 21,44 | 8,650 | +9,0253 | —9,1610 | ,9370 | ,9552 | 288 | +,006 | — ,13 |
| 1455 | 2 | +32 52 1,52 | 8,750 | +9,9304 | +9,3748 | ,9420 | ,9541 | 300 | +,036 | — ,16 |
| 1456 | 3 | +19 37 34,43 | 8,771 | +9,8519 | +9,1674 | +0,9430 | +9,9538 | 301 | +,020 | — ,11 |
| 1457 | 4 | + 9 56 5,37 | 8,839 | +9,7649 | +8,8819 | ,9464 | ,9530 | 307 | —,004 | — ,19 |
| 1458 | 1 | +17 25 32,54 | 8,850 | +9,8344 | +9,1215 | ,9469 | ,9529 | 308 | +,018 | — ,10 |
| 1459 | 3 | +18 19 23,30 | 8,907 | +9,8414 | +9,1454 | ,9497 | ,9522 | 312 | +,015 | + ,02 |
| 1460 | 7 | +17 23 50,95 | 8,922 | +9,8338 | +9,1242 | ,9505 | ,9520 | 315 | +,019 | + ,02 |
| 1461 | 2 | — 8 39 25,63 | 8,943 | +9,4683 | —8,8268 | +0,9515 | +9,9520 | 314 | —,013 | — ,04 |
| 1462 | 3 | +11 11 19,15 | 8,954 | +9,7781 | +8,9384 | ,9520 | ,9517 | 317 | +,017 | — ,03 |
| 1463 | 2 | +19 54 16,05 | 8,975 | +9,8531 | +9,1833 | ,9530 | ,9514 | 321 | —,001 | — ,17 |
| 1464 | 4 | +11 31 58,47 | 9,073 | +9,7810 | +8,9573 | ,9578 | ,9502 | 326 | +,005 | — ,10 |
| 1465 | 4 | +23 53 40,00 | 9,082 | +9,8797 | +9,2637 | ,9580 | ,9501 | 327 | +,012 | — ,03 |
| 1466 | 4 | +17 27 26,66 | 9,162 | +9,8331 | +9,1373 | +0,9620 | +9,9491 | 335 | +,015 | — ,06 |
| 1467 | 3 | +19 21 47,35 | 9,276 | +9,8470 | +9,1860 | ,9673 | ,9477 | 338 | +,004 | — ,08 |
| 1468 | 4 | +10 58 45,28 | 9,286 | +9,7745 | +8,9458 | ,9678 | ,9475 | 336 | +,002 | + ,02 |
| 1469 | 5 | +11 9 22,42 | 9,286 | +9,7767 | +8,9529 | ,9678 | ,9475 | 337 | +,005 | + ,13 |
| 1470 | 3 | +16 42 40,76 | 9,296 | +9,8267 | +9,1252 | ,9693 | ,9474 | 341 | +,010 | — ,04 |
| 1471 | 3 | + 7 28 56,96 | 9,317 | +9,7364 | +8,7820 | +0,9693 | +9,9471 | 345 | +,012 | + ,01 |
| 1472 | 3 | —21 17 50,78 | 9,333 | +8,9191 | —9,2279 | ,9700 | ,9469 | 339 | +,006 | + ,04 |
| 1473 | 3 | + 6 9 10,88 | 9,338 | +9,7210 | +8,6994 | ,9702 | ,9469 | 348 | +,006 | — ,05 |
| 1474 | 3 | —23 4 41,18 | 9,358 | +8,7243 | —9,2623 | ,9712 | ,9466 | 346 | +,006 | — ,03 |
| 1475 | 2 | +11 7 34,62 | 9,358 | +9,7760 | +8,9550 | ,9712 | ,9471 | 350 | +,005 | + ,07 |
| 1476 | 3 | + 6 50 41,90 | 9,441 | +9,7292 | +8,7496 | +0,9750 | +9,9455 | 357 | +,010 | + ,01 |
| 1477 | 4 | + 7 32 9,75 | 9,492 | +9,7372 | +8,7940 | ,9774 | ,9448 | 363 | +,005 | — ,04 |
| 1478 | 3 | + 6 57 58,95 | 9,497 | +9,7308 | +8,7594 | ,9776 | ,9448 | 364 | +,011 | + ,02 |
| 1479 | 2 | —38 18 36,97 | 9,518 | —9,3096 | —9,4688 | ,9785 | ,9445 | 359 | —,009 | — ,38 |
| 1480 | 4 | +21 59 44,22 | 9,518 | +9,8645 | +9,2501 | ,9785 | ,9445 | 368 | +,002 | + ,07 |
| 1481 | 4 | —18 41 33,91 | 9,564 | +9,1139 | —9,1843 | +0,9806 | +9,9439 | 367 | +,005 | + ,07 |
| 1482 | 4 | — 0 21 51,99 | 9,656 | +9,6314 | —7,4890 | ,9848 | ,9427 | 376 | +,018 | — ,13 |
| 1483 | 4 | —16 49 53,26 | 9,743 | +9,2095 | —9,1481 | ,9887 | ,9415 | 381 | +,010 | — ,07 |
| 1484 | 5 | —15 53 0,90 | 9,768 | +9,2504 | —9,1246 | ,9898 | ,9411 | 387 | +,006 | — ,04 |
| 1485 | 2 | +16 39 48,37 | 9,773 | +9,8241 | +9,1461 | ,9900 | ,9410 | 392 | +,011 | — ,20 |

| No. | Star's name and Mag. | | No. Obs. | Right Ascension Jan. 1, 1836. | | | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | *a* | *b* | *c* | *d* |
| | | | | *h.* | *m* | *s.* | *s.* | | | | |
| 1486 | Antinoi | 9 | 2 | 19 | 56 | 33,87 | +3,212 | +8,5153 | —8,7682 | +0,5068, | —7,6032 |
| 1487 | Sagittarii | 7.8 | 3 | | 56 | 42,11 | 3,491 | ,5393 | ,7916 | ,5429 | —8,0719 |
| 1488 | Sagittæ | 7 | 2 | | 56 | 50,03 | 2,705 | ,5329 | ,7847 | ,4322 | +8,0058 |
| 1489 | Sagittarii | 8 | 3 | | 56 | 55,35 | 3,542 | ,5463 | ,7978 | ,5492 | —8,1221 |
| 1490 | Capricorni | 8 | 2 | | 57 | 37,78 | 3,345 | ,5278 | ,7757 | ,5244 | —7,8922 |
| 1491 | Capricorni | 7.8 | 2 | | 57 | 44,10 | 3,334 | +8,5271 | --8,7748 | +0,5230 | —7,8759 |
| 1492 | Antinoi | 8 | 2 | | 58 | 1,66 | 3,260 | ,5230 | ,7691 | ,5132 | —7,7345 |
| 1493 | Vulpeculæ | 7.8 | 1 | | 58 | 6,43 | 2,570 | ,5538 | ,7999 | ,4099 | +8,1492 |
| 1494 | Antinoi | 8 | 2 | | 58 | 40,46 | 3,095 | ,5193 | ,7628 | ,4907 | —6,8860 |
| 1495 | Sagittæ | 7.8 | 2 | | 59 | 22,42 | 2,727 | ,5394 | ,7800 | ,4357 | +7,9906 |
| 1496 | Antinoi | 8 | 3 | | 59 | 27,08 | 3,028 | +8,5218 | —8,7621 | +0,4812 | +7,0573 |
| 1497 | Vulpeculæ | 8 | 2 | 20 | 0 | 1,52 | 2,633 | ,5523 | ,7900 | ,4204 | +8,0993 |
| 1498 | Sagittæ | 8 | 3 | | 0 | 1,77 | 2,724 | ,5417 | ,7797 | ,4352 | +7,9963 |
| 1499 | ——— | 7.8 | 3 | | 1 | 4,91 | 2,654 | ,5533 | ,7864 | ,4239 | +8,0821 |
| 1500 | Vulpeculæ | 8.9 | 3 | | 1 | 28,43 | 2,622 | ,5584 | ,7900 | ,4186 | +8,1157 |
| 1501 | Aquilæ | 7 | 2 | | 1 | 39,96 | 2,728 | +8,5468 | —8,7776 | +0,4358 | +7,9985 |
| 1502 | Antinoi | 8.9 | 3 | | 1 | 45,32 | 3,202 | ,5321 | ,7622 | ,5054 | —7,5947 |
| 1503 | Vulpeculæ | 7 | 2 | | 1 | 50,65 | 2,511 | ,5750 | ,8049 | ,3998 | +8,2140 |
| 1504 | Antinoi | 7 | 2 | | 2 | 16,26 | 3,256 | ,5366 | ,7645 | ,5127 | —7,7451 |
| 1505 | ——— | 7 | 2 | | 3 | 21,54 | 3,200 | ,5341 | ,7614 | ,5051 | —7,5913 |
| 1506 | Sagittæ | 7 | | | 2 | | 2,638 | +8,5607 | —8,7868 | +0,4213 | +8,1057 |
| 1507 | Antinoi | 8 | 3 | | 2 | 51,22 | 3,201 | ,5357 | 8,7609 | 0,5053 | —7,5972 |
| 1508 | ——— *seq.* | 7 | 2 | | 2 | 53,68 | 3,079 | ,5328 | 8,7580 | 0,4884 | —6,5406 |
| 1509 | Aquilæ | 7.8 | 2 | | 3 | 5,79 | 2,950 | ,5357 | 8,7601 | 0,4698 | +7,5465 |
| 1510 | Draconis | 7.8 | | | 3 | | 0,794 | ,8803 | 9,1041 | 9,8998 | +8,8311 |
| 1511 | Aquilæ | 8 | 3 | | 3 | 22,14 | 2,957 | +8,5363 | —8,7596 | +0,4708 | +7,5257 |
| 1512 | Antinoi | 8 | 3 | | 3 | 25,17 | 3,074 | ,5345 | ,7574 | ,4877 | —6,2287 |
| 1513 | Aquilæ | 7 | 2 | | 3 | 39,99 | 2,746 | ,5516 | ,7737 | ,4387 | +7,9835 |
| 1514 | Capricorni | 7.8 | 3 | | 3 | 44,69 | 3,297 | ,5440 | ,7655 | ,5181 | —7,8362 |
| 1515 | Vulpeculæ | 8 | 2 | | 4 | 5,30 | 2,631 | ,5659 | ,7863 | ,4201 | +8,1179 |
| 1516 | Aquilæ | 8 | 3 | | 4 | 47,67 | 2,746 | +8,5553 | —8,7725 | +0,4387 | +7,9885 |
| 1517 | Vulpeculæ | 7.8 | | | 5 | | 2,505 | ,5868 | ,8029 | ,3988 | +8,2328 |
| 1518 | Aquilæ | 8 | 2 | | 5 | 15,47 | 2,971 | ,5417 | ,7569 | ,4729 | +7,4673 |
| 1519 | ——— | 8 | 2 | | 5 | 20,03 | 2,749 | ,5567 | ,7717 | ,4392 | +7,9867 |
| 1520 | Capricorni | 7.8 | 2 | | 5 | 48,65 | 3,313 | ,5518 | ,7645 | ,5202 | —7,8738 |
| 1521 | Antinoi | 8 | 3 | | 5 | 55,64 | 3,075 | +8,5424 | —8,7545 | +0,4878 | —6,3072 |
| 1522 | Aquilæ *pr.* | 7.8 | 2 | | 6 | 7,26 | 2,946 | ,5455 | ,7568 | ,4692 | +7,5719 |
| 1523 | ——— *seq.* | 7.8 | 2 | | 6 | 7,91 | 2,946 | ,5455 | ,7568 | ,4692 | +7,5731 |
| 1524 | ——— | 7 | 3 | | 6 | 39,53 | 3,010 | ,5452 | ,7542 | ,4786 | +7,2518 |
| 1525 | Capricorni | 7 | 1 | | 6 | 44,12 | 3,411 | ,5638 | ,7725 | ,5329 | —8,0243 |
| 1526 | Antinoi | 8.9 | 2 | | 7 | 10,23 | 3,128 | +8,5467 | —8,7537 | +0,4953 | —7,2727 |
| 1527 | Aquilæ | 7.9 | 2 | | 7 | 16,69 | 3,022 | ,5469 | ,7533 | ,4803 | +7,1597 |
| 1528 | Cygni | 8 | 2 | | 7 | 56,36 | 2,241 | ,6408 | ,8450 | ,3504 | +8,4112 |
| 1529 | ——— | 7 | 3 | | 8 | 29,28 | 1,887 | ,7100 | ,9117 | ,2758 | +8,5686 |
| 1530 | ——— | 7.8 | 1 | | 8 | 31,77 | 2,239 | ,6436 | ,8450 | ,3500 | +8,4154 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1486 | 3 | — 7 2 40,21 | +9,773 | +9,5105 | —8,7760 | +0,9900 | +9,9410 | 389 | +,019 | — ,07 |
| 1487 | 4 | —19 57 8,28 | 9,783 | +9,0414 | —9,2212 | ,9905 | ,9409 | 388 | +,001 | — ,15 |
| 1488 | 3 | +17 16 38,05 | 9,793 | +9,8280 | +9,1619 | ,9909 | ,9408 | 394 | +,012 | — ,01 |
| 1489 | 3 | —22 8 6,82 | 9,799 | +8,8692 | —9,2650 | ,9912 | ,9407 | 390 | +,001 | — ,17 |
| 1490 | 3 | —13 23 24,84 | 9,860 | +9,3424 | —9,0564 | ,9939 | ,9398 | 396 | +,007 | — ,08 |
| 1491 | 3 | —12 54 11,62 | 9,865 | +9,3598 | —9,0409 | +0,9941 | +9,9398 | 398 | +,011 | + ,03 |
| 1492 | 3 | — 9 22 44,50 | 9,890 | +9,4579 | —8,9048 | ,9952 | ,9394 | 399 | +,017 | — ,06 |
| 1493 | 3 | +23 12 19,64 | 9,890 | +9,8704 | +9,2887 | ,9952 | ,9394 | 401 | +,005 | + ,04 |
| 1494 | 3 | — 1 20 14,72 | 9,936 | +9,6170 | —8,0620 | ,9972 | ,9388 | 403 | +,031 | — ,15 |
| 1495 | 4 | +16 24 9,01 | 9,986 | +9,8202 | +9,1486 | ,9994 | ,9380 | 409 | +,019 | — ,06 |
| 1496 | 3 | + 1 58 29,30 | 9,991 | +9,6665 | +8,2332 | +0,9996 | +9,9380 | 407 | +,018 | + ,05 |
| 1497 | 1 | +20 38 4,46 | 10,037 | +9,8519 | +9,2466 | 1,0016 | ,9373 | 415 | +,013 | — ,06 |
| 1498 | 3 | +16 33 8,61 | 10,032 | +9,8214 | +9,1540 | 1,0014 | ,9374 | 413 | +,009 | + ,05 |
| 1499 | 3 | +19 44 46,00 | 10,117 | +9,8451 | +9,2319 | 1,0051 | ,9361 | 422 | +,011 | — ,17 |
| 1500 | 2 | +21 8 55,77 | 10,142 | +9,8555 | +9,2615 | 1,0061 | ,9358 | 424 | +,018 | + ,07 |
| 1501 | 3 | +16 26 6,73 | 10,158 | +9,8195 | +9,1564 | +1,0068 | +9,9355 | 2 | —,005 | — ,03 |
| 1502 | 4 | — 6 38 25,26 | 10,167 | +9,5211 | —8,7679 | ,0072 | ,9354 | 423 | +,017 | — ,05 |
| 1503 | 2 | +25 48 2,91 | 10,172 | +9,8842 | +9,3444 | ,0074 | ,9353 | 5 | +,007 | + ,01 |
| 1504 | 3 | — 9 19 19,19 | 10,208 | +9,4609 | —8,9154 | ,0089 | ,9348 | 4 | +,009 | — ,08 |
| 1505 | 2 | — 6 34 2,75 | 10,218 | +9,5224 | —8,7646 | ,0094 | ,9346 | 6 | +,006 | — ,10 |
| 1506 | 2 | +20 31 28,55 | 10,238 | +9,8500 | +9,2533 | +1,0102 | +9,9343 | 15 | | — ,09 |
| 1507 | 1 | — 6 37 49,28 | 10,253 | +9,5211 | —8,7704 | ,0108 | ,9341 | 8 | +,017 | — ,03 |
| 1508 | 2 | — 0 36 25,61 | 10,253 | +9,6284 | —7,7167 | ,0108 | ,9341 | 12 | +,017 | — ,19 |
| 1509 | 3 | + 5 52 3,10 | 10,268 | +9,7160 | +8,7203 | ,0115 | ,9339 | 17 | +,016 | — ,03 |
| 1510 | | +63 13 | 10,278 | +9,9827 | +9,6607 | ,0119 | ,9337 | 30 | | |
| 1511 | 2 | + 5 35 26,16 | 10,288 | +9,7126 | +8,6997 | +1,0123 | +9,9336 | 19 | +,014 | — ,15 |
| 1512 | 3 | — 0 18 14,75 | 10,293 | +9,6335 | —7,4047 | ,0125 | ,9335 | 18 | +,016 | — ,14 |
| 1513 | 1 | +15 41 16,21 | 10,308 | +9,8129 | +9,1437 | ,0132 | ,9333 | 23 | +,016 | + ,16 |
| 1514 | 2 | —11 19 28,90 | 10,318 | +9,4116 | —9,0038 | ,0136 | ,9331 | 20 | +,011 | — ,08 |
| 1515 | 1 | +20 52 10,14 | 10,338 | +9,8513 | +9,2645 | ,0144 | ,9328 | 27 | +,015 | + ,01 |
| 1516 | 3 | +15 43 54,14 | 10,393 | +9,8129 | +9,1480 | +1,0167 | +9,9320 | 32 | +,020 | — ,04 |
| 1517 | 2 | +26 15 33,25 | 10,413 | +9,8848 | +9,3616 | ,0176 | ,9317 | 36 | | + ,03 |
| 1518 | 3 | + 4 49 13,70 | 10,428 | +9,7024 | +8,6418 | ,0182 | ,9315 | 35 | +,015 | — ,18 |
| 1519 | | +15 36 | 10,434 | +9,8116 | +9,1465 | ,0184 | ,9314 | 38 | +,022 | |
| 1520 | 3 | —12 7 41,41 | 10,472 | +9,3892 | —9,0401 | ,0200 | ,9308 | 39 | +,014 | — ,12 |
| 1521 | 3 | — 0 20 52,45 | 10,482 | +9,6325 | —7,4832 | +1,0205 | +9,9306 | 41 | +,017 | — ,10 |
| 1522 | 2 | + 6 5 21,58 | 10,498 | +9,7177 | +8,7455 | ,0211 | ,9304 | 43 | —,010 | — ,03 |
| 1523 | 3 | + 6 6 3,66 | 10,498 | +9,7177 | +8,7467 | ,0211 | ,9304 | 44 | —,013 | — ,08 |
| 1524 | 3 | + 2 54 46,56 | 10,537 | +9,6776 | +8,4273 | ,0227 | ,9297 | 46 | +,005 | — ,12 |
| 1525 | 2 | —16 47 18,82 | 10,543 | +9,2279 | —9,1815 | ,0229 | ,9297 | 45 | +,016 | — ,12 |
| 1526 | 3 | — 3 3 33,77 | 10,572 | +9,5888 | —8,4481 | +1,0241 | +9,9292 | 50 | —,006 | + ,03 |
| 1527 | 3 | + 2 21 6,39 | 10,682 | +9,6712 | +8,3354 | ,0246 | ,9290 | 51 | +,012 | ,00 |
| 1528 | 1 | +36 6 40,82 | 10,621 | +9,9299 | +9,4946 | ,0262 | ,9284 | 55 | +,016 | — ,02 |
| 1529 | 4 | +46 13 4,67 | 10,666 | +9,9595 | +9,5846 | ,0280 | ,9277 | 63 | +,014 | ,00 |
| 1530 | 4 | +36 15 24,12 | 10,671 | +9,9299 | +9,4980 | ,0282 | ,9276 | 61 | +,005 | + ,06 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 1531 | Aquilæ 7.8 | 3 | 20 9 37,15 | +2,758 | +8,5694 | —8,7660 | +0,4406 | +7,9931 |
| 1532 | Capricorni 7.8 | 3 | 9 51,11 | 3,365 | ,5689 | 8,7645 | ,5270 | —7,9758 |
| 1533 | Vulpeculæ 7.8 | 3 | 9 56,45 | 2,634 | ,5846 | 8,7799 | ,4206 | +8,1406 |
| 1534 | Draconis 6.7 | 2 | 10 26,47 | 1,107 | ,8587 | 9,0523 | ,0441 | +8,7969 |
| 1535 | Capricorni 8.9 | 3 | 10 41,70 | 3,364 | ,5715 | 8,7634 | ,5269 | —7,9778 |
| 1536 | Capricorni 8 | 2 | 11 36,27 | 3,450 | +8,5835 | —8,7715 | +0,5378 | —8,0921 |
| 1537 | Vulpeculæ 7.8 | 2 | 11 40,34 | 2,605 | ,5939 | ,7819 | ,4158 | +8,1758 |
| 1538 | Antinoi 7.8 | 4 | 11 41,96 | 3,203 | ,5629 | ,7507 | ,5056 | —7,6395 |
| 1539 | Vulpeculæ 7.8 | 2 | 12 19,85 | 2,605 | ,5963 | ,7811 | ,4158 | +8,1792 |
| 1540 | Antinoi 7.8 | 3 | 12 23,88 | 3,202 | ,5649 | ,7499 | ,5054 | —7,6414 |
| 1541 | Capricorni 7.8 | 3 | 12 28,83 | 3,530 | +8,5962 | —8,7809 | +0,5478 | —8,1781 |
| 1542 | ——— 8 | 2 | 13 5,80 | 3,395 | ,5818 | 8,7637 | ,5308 | —8,0308 |
| 1543 | Antinoi 8.9 | 2 | 13 8,59 | 3,206 | ,5672 | 8,7492 | ,5060 | —7,6572 |
| 1544 | Cephei 8 | 2 | 13 14,18 | 1,387 | ,8208 | 9,0031 | ,1421 | +8,7415 |
| 1545 | Capricorni 8 | 3 | 13 31,50 | 3,323 | ,5761 | 8,7564 | ,5215 | —7,9249 |
| 1546 | Capricorni 8 | 2 | 13 42,14 | 3,251 | +8,5712 | —8,7510 | +0,5120 | —7,7812 |
| 1547 | ——— 8 | 2 | 13 43,51 | 3,448 | ,5895 | ,7690 | ,5376 | —8,0989 |
| 1548 | Vulpeculæ 8 | 2 | 13 47,89 | 2,640 | ,5955 | ,7750 | ,4216 | +8,1502 |
| 1549 | Capricorni 8 | 1 | 13 56,27 | 3,393 | ,5840 | ,7626 | ,5306 | —8,0317 |
| 1550 | Antinoi 9 | 4 | 14 16,94 | 3,188 | ,5696 | ,7469 | ,5035 | —7,6007 |
| 1551 | Vulpeculæ 9 | 2 | 14 36,55 | 2,644 | +8,5974 | —8,7736 | +0,4223 | +8,1498 |
| 1552 | Capricorni 8 | 1 | 14 36,94 | 3,562 | ,6073 | ,7832 | ,5517 | —8,2163 |
| 1553 | Delphini 8 | 2 | 15 34,57 | 2,876 | ,5772 | ,7493 | ,4588 | +7,8103 |
| 1554 | Vulpeculæ 8 | 3 | 15 36,21 | 2,585 | ,6085 | ,7806 | ,4125 | +8,2104 |
| 1555 | ——— 7.8 | 2 | 16 7,12 | 2,586 | ,6099 | ,7798 | ,4126 | +8,2112 |
| 1556 | Antinoi 8 | 3 | 16 12,01 | 3,108 | +8,5727 | —8,7423 | +0,4925 | —7,1262 |
| 1557 | ——— 7 | 3 | 16 16,04 | 3,057 | ,5726 | ,7420 | ,4853 | +6,5548 |
| 1558 | Vulpeculæ 7 | 2 | 16 18,82 | 2,595 | ,6092 | ,7783 | ,4141 | +8,2038 |
| 1559 | Antinoi 7.8 | 2 | 16 21,21 | 3,052 | ,5730 | ,7418 | ,4846 | +6,7443 |
| 1560 | Delphini 9 | 1 | 16 23,93 | 2,859 | ,5808 | ,7493 | ,4562 | +7,8502 |
| 1561 | Antinoi 9 | 1 | 16 35,61 | 3,144 | +8,5747 | —8,7425 | +0,4975 | —7,4110 |
| 1562 | Capricorni 7.8 | 1 | 16 55,11 | 3,463 | ,6007 | ,7671 | ,5394 | —8,1278 |
| 1563 | ——— 7.8 | 1 | 17 7,98 | 3,351 | ,5890 | ,7546 | ,5251 | —7,9837 |
| 1564 | Vulpeculæ 7.8 | 3 | 17 21,68 | 2,582 | ,6140 | ,7791 | ,4120 | +8,2194 |
| 1565 | Antinoi 7.8 | 3 | 17 25,08 | 3,152 | ,5772 | ,7417 | ,4986 | —7,4605 |
| 1566 | Antinoi 8.9 | 4 | 17 27,00 | 3,144 | +8,5771 | —8,7414 | +0,4972 | —7,4153 |
| 1567 | Capricorni 7.8 | 1 | 17 34,91 | 3,470 | ,6037 | ,7674 | ,5403 | —8,1391 |
| 1568 | Antinoi 7 | 1 | 17 59,46 | 3,022 | ,5780 | ,7400 | ,4803 | +7,2059 |
| 1569 | Vulpeculæ 8 | 2 | 18 7,37 | 2,603 | ,6135 | ,7753 | ,4155 | +8,2042 |
| 1570 | Antinoi 7 | 2 | 18 21,97 | 3,041 | ,5788 | ,7392 | ,4830 | +6,9668 |
| 1571 | Draconis 7 | 1 | 18 51,55 | 1,921 | +8,9213 | —9,0804 | +0,2835 | +8,8709 |
| 1572 | Vulpeculæ 8 | 1 | 18 51,68 | 2,600 | ,6160 | 8,7748 | ,4150 | +8,2094 |
| 1573 | Antinoi 8 | 2 | 18 54,99 | 3,143 | ,5812 | 8,7394 | ,4973 | —7,4156 |
| 1574 | ——— 8 | 2 | 18 56,28 | 3,119 | ,5806 | 8,7389 | ,4940 | —7,2428 |
| 1575 | ——— 7.8 | 3 | 18 57,95 | 3,118 | ,5808 | 8,7388 | ,4939 | —7,2403 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1531 | 3 | +15 22 14,68 | +10,754 | +9,8075 | +9,1533 | +1,0316 | +9,9263 | 68 | +,004 | — ,12 |
| 1532 | 3 | —14 47 51,73 | 10,774 | +9,3117 | —9,1372 | ,0324 | ,9259 | 66 | +,011 | — ,14 |
| 1533 | 3 | +21 3 55,83 | 10,779 | +9,8500 | +9,2866 | ,0326 | ,9259 | 72 | +,013 | + ,07 |
| 1534 | 3 | +60 8 22,08 | 10,808 | +9,9759 | +9,6700 | ,0338 | ,9254 | 82 | +,030 | — ,11 |
| 1535 | 3 | —14 47 0,13 | 10,838 | +9,3139 | —9,1393 | ,0349 | ,9249 | 73 | +,002 | — ,13 |
| 1536 | 2 | —18 50 3,30 | 10,907 | +9,1461 | —9,2443 | +1,0377 | +9,9237 | 80 | +,011 | — ,04 |
| 1537 | 2 | +22 25 56,79 | 10,907 | +9,8579 | +9,3176 | ,0377 | ,9237 | 86 | —,007 | + ,06 |
| 1538 | 3 | — 6 52 5,93 | 10,912 | +9,5198 | —8,8124 | ,0379 | ,9237 | 84 | +,003 | — ,15 |
| 1539 | 3 | +22 29 14,82 | 10,965 | +9,8579 | +9,3209 | ,0400 | ,9228 | 91 | +,007 | + ,04 |
| 1540 | 3 | — 6 51 51,27 | 10,960 | +9,5198 | —8,8144 | ,0398 | ,9228 | 90 | +,010 | — ,14 |
| 1541 | 3 | —22 28 15,35 | 10,965 | +8,9085 | —9,3200 | +1,0400 | +9,9228 | 88 | +,020 | — ,05 |
| 1542 | 2 | —16 20 36,61 | 11,014 | +9,2577 | —9,1890 | ,0419 | ,9219 | 94 | +,013 | + ,23 |
| 1543 | 2 | — 7 4 52,56 | 11,014 | +9,5159 | —8,8300 | ,0419 | ,9219 | 95 | +,003 | — ,06 |
| 1544 | 3 | +56 23 58,48 | 11,013 | +9,9713 | +9,6605 | ,0417 | ,9220 | 104 | +,010 | — ,32 |
| 1545 | 3 | —12 53 54,47 | 11,043 | +9,3747 | —9,0899 | ,0431 | ,9214 | 96 | ,000 | + ,07 |
| 1546 | 1 | — 9 20 33,83 | 11,052 | +9,4669 | —8,9515 | +1,0435 | +9,9213 | 98 | +,021 | — ,04 |
| 1547 | 3 | —18 51 31,47 | 11,058 | +9,1523 | —9,2510 | ,0437 | ,9212 | 97 | +,017 | ,00 |
| 1548 | 2 | +21 0 14,47 | 11,058 | +9,8476 | +9,2964 | ,0437 | ,9212 | 101 | +,018 | + ,02 |
| 1549 | 2 | —16 18 30,26 | 11,073 | +9,2601 | —9,1900 | ,0442 | ,9209 | 100 | +,010 | — ,09 |
| 1550 | 1 | — 6 11 41,60 | 11,098 | +9,5327 | —8,7743 | ,0452 | ,9205 | 103 | +,015 | — ,02 |
| 1551 | 2 | +20 53 4,46 | 11,116 | +9,8463 | +9,2963 | +1,0459 | +9,9202 | 106 | +,012 | — ,07 |
| 1552 | 2 | —23 59 48,90 | 11,121 | +8,7634 | —9,3532 | ,0461 | ,9201 | 105 | +,027 | — ,04 |
| 1553 | 3 | + 9 50 21,98 | 11,189 | +9,7559 | +8,9800 | ,0488 | ,9189 | 110 | +,007 | — ,16 |
| 1554 | 2 | +23 33 28,95 | 11,189 | +9,8633 | +9,3487 | ,0488 | ,9189 | 113 | +,002 | — ,04 |
| 1555 | 2 | +23 30 54,03 | 11,227 | +9,8627 | +9,3496 | ,0503 | ,9182 | 118 | +,001 | — ,04 |
| 1556 | 2 | — 2 4 1,57 | 11,233 | +9,6064 | —8,3020 | +1,0505 | +9,9181 | 115 | +,015 | — ,08 |
| 1557 | 2 | + 0 32 32,57 | 11,237 | +9,6454 | +7,7309 | ,0506 | ,9181 | 116 | +,014 | — ,16 |
| 1558 | 1 | +23 8 48,33 | 11,242 | +9,8597 | +9,3434 | ,0508 | ,9180 | 122 | +,010 | — ,08 |
| 1559 | 2 | + 0 50 38,75 | 11,247 | +9,6493 | +7,9203 | ,0510 | ,9179 | 117 | +,005 | — ,06 |
| 1560 | 2 | +10 41 54,31 | 11,252 | +9,7634 | +9,0186 | ,0512 | ,9178 | 120 | +,013 | — ,23 |
| 1561 | 2 | — 3 56 57,96 | 11,266 | +9,5752 | —8,5861 | +1,0518 | +9,9175 | 121 | +,005 | — ,14 |
| 1562 | 2 | —19 40 54,15 | 11,291 | +9,1173 | —9,2778 | ,0527 | ,9171 | 123 | —,001 | — ,07 |
| 1563 | 1 | —14 23 33,61 | 11,304 | +9,3324 | —9,1459 | ,0532 | ,9169 | 125 | +,008 | — ,09 |
| 1564 | 2 | +23 45 3,22 | 11,314 | +9,8633 | +9,3570 | ,0536 | ,9167 | 130 | +,014 | + ,01 |
| 1565 | 1 | — 4 23 39,02 | 11,323 | +9,5682 | —8,6353 | ,0540 | ,9165 | 128 | —,022 | — ,06 |
| 1566 | 2 | — 3 58 24,96 | 11,328 | +9,5752 | —8,5903 | +0,0542 | +9,9164 | 129 | +,015 | — ,11 |
| 1567 | 2 | —20 4 41,66 | 11,338 | +9,0969 | —9,2880 | ,0545 | ,9162 | 127 | +,012 | — ,17 |
| 1568 | 2 | + 2 25 37,32 | 11,368 | +9,6702 | +8,3816 | ,0556 | ,9157 | 134 | +,006 | — ,03 |
| 1569 | 2 | +22 54 56,65 | 11,372 | +9,8579 | +9,3445 | ,0558 | ,9156 | 137 | +,011 | — ,07 |
| 1570 | 3 | + 1 23 7,57 | 11,397 | +9,6571 | +8,1427 | ,0567 | ,9152 | 136 | +,011 | — ,01 |
| 1571 | | +62 54 | 11,420 | +9,9685 | +9,7052 | +1,0577 | +9,9148 | 150 | ,000 | |
| 1572 | 2 | +23 4 13,79 | 11,424 | +9,8579 | +9,3492 | ,0578 | ,9147 | 141 | +,004 | — ,05 |
| 1573 | 3 | — 3 55 44,97 | 11,434 | +9,5753 | —8,5907 | ,0582 | ,9145 | 138 | +,019 | — ,06 |
| 1574 | 2 | — 2 39 0,84 | 11,434 | +9,5966 | —8,4185 | ,0582 | ,9145 | 139 | —,010 | — ,16 |
| 1575 | 3 | — 2 38 0,18 | 11,438 | +9,5977 | —8,4159 | ,0584 | ,9144 | 140 | +,012 | — ,06 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 1576 | Delphini 8.9 | 1 | 20 19 16,06 | +2,858 | +8,5889 | —8,7458 | +0,4561 | +7,8629 |
| 1577 | Antinoi 8 | 3 | 19 58,88 | 3,163 | ,5847 | ,7386 | ,5001 | —7,5221 |
| 1578 | ——— 7.8 | 2 | 20 0,71 | 3,022 | ,5834 | ,7374 | ,4803 | +7,2054 |
| 1579 | Aquilæ 7.8 | 2 | 20 8,79 | 2,916 | ,5875 | ,7410 | ,4648 | +7,7257 |
| 1580 | Antinoi 7.8 | 2 | 20 14,16 | 3,063 | ,5838 | ,7367 | ,4861 | +6,3697 |
| 1581 | Vulpeculæ 7.8 | 1 | 20 14,52 | 2,598 | +8,6204 | —8,7736 | +0,4146 | +8,2170 |
| 1582 | Delphini 7.8 | 2 | 20 35,65 | 2,920 | ,5884 | ,7403 | ,4654 | +7,7174 |
| 1583 | Antinoi 8 | 2 | 21 22,86 | 3,163 | ,5884 | ,7368 | ,5001 | —7,5258 |
| 1584 | ——— 8.9 | 2 | 21 53,02 | 3,181 | ,5905 | ,7367 | ,5026 | —7,6049 |
| 1585 | ——— 8.9 | 2 | 21 56,38 | 3,189 | ,5909 | ,7371 | ,5036 | —7,6346 |
| 1586 | Capricorni 7.8 | 3 | 21 59,63 | 3,271 | +8,5958 | —8,7417 | +0,5147 | —7.8592 |
| 1587 | ——— *pre.* 8 | 4 | 22 37,00 | 3,522 | ,6249 | ,7685 | ,5468 | —8,2111 |
| 1588 | ——— *seq.* 8 | 3 | 22 39,26 | 3,522 | ,6252 | ,7684 | ,5468 | —8,2117 |
| 1589 | Delphini 8 | 2 | 22 42,74 | 2,692 | ,6148 | ,7581 | ,4301 | +8,1304 |
| 1590 | Antinoi 8 | 2 | 23 20,24 | 3,143 | ,5929 | ,7335 | ,4973 | —7,4329 |
| 1591 | Delphini *seq.* 7.8 | 3 | 23 23,30 | 2,863 | +8,5995 | —8,7401 | +0,4568 | +7,8689 |
| 1592 | Cygni 7 | 2 | 23 26,95 | 1,849 | ,7696 | ,9102 | ,2669 | +8,6433 |
| 1593 | ——— 8 | 1 | 23 45,67 | 1,853 | ,7701 | ,9094 | ,2679 | +8,6434 |
| 1594 | ——— 7 | 1 | 24 58,71 | 2,381 | ,6703 | ,8044 | ,3768 | +8,4011 |
| 1595 | ——— 7 | 1 | 25 49,45 | 1,845 | ,7784 | ,9095 | ,2660 | +8,6541 |
| 1596 | Aquarii 8 | 1 | 25 55,05 | 3,250 | +8,6048 | —8,7350 | 0+,5119 | —7,8276 |
| 1597 | Delphini 7.8 | 2 | 26 19,26 | 2,797 | 8,6131 | 8,7417 | 0,4467 | +8,0018 |
| 1598 | Aquarii 8 | 2 | 26 21,34 | 3,248 | 8,6059 | 8,7343 | 0,5116 | —7,8258 |
| 1599 | Draconis 7 | 2 | 26 21,57 | 0,381 | 9,0301 | 9,1594 | 9,5809 | +8,9980 |
| 1600 | Aquilæ 8.9 | 2 | 26 26,70 | 3,031 | 8,6003 | 8,7284 | 0,4816 | +7,1358 |
| 1601 | Delphini 8 | 1 | 26 36,17 | 2,864 | +8,6080 | —8,7357 | +0,4570 | +7,8794 |
| 1602 | Cygni 8.9 | 2 | 26 46,99 | 2,360 | ,6795 | ,8066 | ,3729 | +8,4212 |
| 1603 | Aquilæ 8 | 2 | 26 55,81 | 3,116 | ,6016 | ,7279 | ,4936 | —7,2583 |
| 1604 | ——— 8 | 3 | 27 29,46 | 3,016 | ,6030 | ,7272 | ,4794 | +7,2867 |
| 1605 | Delphini 8.9 | 3 | 27 35,59 | 2,865 | ,6106 | ,7343 | ,4571 | +7,8827 |
| 1606 | Cephei 6.7 | 2 | 27 45,93 | 1,471 | +8,8581 | —8,9815 | +0,1676 | +8,7779 |
| 1607 | Aquilæ 7.8 | 2 | 28 25,35 | 3,032 | ,6051 | 8,7256 | ,4817 | +7,1370 |
| 1608 | ——— 8 | 3 | 28 42,28 | 3,103 | ,6059 | 8,7252 | ,4918 | —7,1188 |
| 1609 | Cephei 7 | 1 | 28 43,05 | 1,233 | ,9049 | 9,0246 | ,0910 | +8,8419 |
| 1610 | Cygni 7 | 2 | 29 14,68 | 1,836 | ,7917 | 8,9093 | ,2639 | +8,6709 |
| 1611 | Capricorni 7.8 | 2 | 29 25,21 | 3,405 | +8,6282 | —8,7448 | +0,5321 | —8,1092 |
| 1612 | Aquarii 7.8 | 1 | 29 30,61 | 3,160 | ,6091 | ,7255 | ,4997 | —7,5436 |
| 1613 | Cygni 7.8 | 2 | 29 35,21 | 1,863 | ,7874 | ,9037 | ,2702 | +8,6628 |
| 1614 | ——— 7.8 | 2 | 30 3,80 | 1,746 | ,8126 | ,9271 | ,2420 | +8,7050 |
| 1615 | Delphini 8 | 1 | 30 13,21 | 2,833 | ,6198 | ,7333 | ,4522 | +7,9563 |
| 1616 | Capricorni 8.9 | 3 | 30 22,40 | 3,362 | +8,6257 | —8,7388 | +0,5266 | —8,0535 |
| 1617 | Delphini 8.8 | 2 | 30 35,49 | 2,833 | ,6210 | 8,7332 | ,4522 | +7,9654 |
| 1618 | Cephei 7.8 | 2 | 30 49,29 | 1,147 | ,9274 | 9,0391 | ,0596 | +8,8700 |
| 1619 | Delphini 7.8 | 2 | 30 57,24 | 2,920 | ,6152 | 8,7260 | ,4654 | +7,7569 |
| 1620 | Cygni 8 | 1 | 31 24,21 | 2,459 | ,6748 | 8,7836 | ,3908 | +8,3740 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1576 | 3 | +10 49 14,66 | +11,458 | +9,7634 | +9,0312 | +1,0591 | +9,9141 | 143 | +,020 | — ,04 |
| 1577 | 4 | — 4 58 5,16 | 11,511 | +9,5575 | —8,6965 | ,0611 | ,9131 | 148 | +,005 | — ,21 |
| 1578 | 2 | + 2 24 1,18 | 11,511 | +9,6702 | +8,3811 | ,0611 | ,9131 | 149 | +,011 | + ,02 |
| 1579 | 3 | + 7 53 55,70 | 11,520 | +9,7340 | +8,8976 | ,0615 | ,9129 | 151 | +,007 | — ,13 |
| 1580 | 3 | + 0 20 42,57 | 11,530 | +9,6425 | +7,5458 | ,0618 | ,9127 | 152 | +,001 | — ,45 |
| 1581 | | +23 15 | 11,525 | +9,8585 | +9,3563 | +1,0616 | +9,9128 | 155 | +,019 | |
| 1582 | 2 | + 7 43 12,94 | 11,549 | +9,7324 | +8,8895 | ,0625 | ,9124 | 156 | +,010 | — ,16 |
| 1583 | | — 4 58 | 11,611 | +9,5587 | —8,7003 | ,0649 | ,9112 | 158 | +,001 | |
| 1584 | 3 | — 5 55 59,39 | 11,649 | +9,5416 | —8,7787 | ,0663 | ,9105 | 159 | +,012 | — ,10 |
| 1585 | 2 | — 6 22 9,41 | 11,649 | +9,5327 | —8,8081 | ,0663 | ,9105 | 160 | +,005 | — ,02 |
| 1586 | 2 | —10 34 42,07 | 11,653 | +9,4425 | —9,0278 | +1,0664 | +9,9104 | 161 | +,010 | — ,14 |
| 1587 | 2 | —22 42 9,05 | 11,696 | +8,9395 | —9,3522 | ,0680 | ,9096 | 166 | +,011 | ,00 |
| 1588 | 3 | —22 42 34,59 | 11,701 | +8,9395 | —9,3527 | ,0682 | ,9095 | 167 | +,021 | — ,04 |
| 1589 | 3 | +19 7 24,38 | 11,701 | +9,8299 | +9,2818 | ,0682 | ,9095 | 171 | +,005 | — ,11 |
| 1590 | 4 | — 3 59 20,19 | 11,748 | +9,5763 | —8,6077 | ,0700 | ,9086 | 175 | +,012 | — ,05 |
| 1591 | 3 | +10 42 48,81 | 11,748 | +9,7612 | +9,0374 | +1,0700 | +9,9086 | 178 | +,005 | — ,18 |
| 1592 | 1 | +48 22 34,24 | 11,748 | +9,9513 | +9,6417 | ,0700 | ,9086 | 183 | +,008 | — ,07 |
| 1593 | 3 | +48 19 23,05 | 11,772 | +9,9508 | +9,6422 | ,0708 | ,9081 | 184 | —,018 | — ,23 |
| 1594 | 3 | +32 32 57,57 | 11,862 | +9,9031 | +9,5030 | ,0741 | ,9063 | 190 | —,003 | — ,07 |
| 1595 | 1 | +48 39 48,38 | 11,917 | +9,9494 | +9,6499 | ,0762 | ,9053 | 199 | +,005 | + ,03 |
| 1596 | 3 | — 9 38 2,54 | 11,932 | +9,4683 | —8,9976 | +1,0767 | +9,9050 | 193 | +,013 | — ,20 |
| 1597 | 2 | +14 9 26,99 | 11,960 | +9,7903 | +9,1645 | ,0777 | ,9044 | 198 | +,009 | — ,09 |
| 1598 | 1 | — 9 33 43,82 | 11,964 | +9,4698 | —8,9958 | ,0779 | ,9043 | 195 | —,006 | — ,20 |
| 1599 | 2 | +68 13 21,28 | 11,950 | +9,8621 | +9,7433 | ,0774 | ,9046 | 208 | +,022 | + ,13 |
| 1600 | 2 | + 1 57 3,96 | 11,969 | +9,6637 | +8,3116 | ,0781 | ,9042 | 197 | +,021 | + ,02 |
| 1601 | 2 | +10 45 12,04 | 11,978 | +9,7597 | +9,0478 | +1,0784 | +9,9040 | 201 | +,004 | — ,09 |
| 1602 | 2 | +33 28 3,15 | 11,988 | +9,9052 | +9,5185 | ,0787 | ,9038 | 204 | +,016 | — ,02 |
| 1603 | 2 | — 2 36 39,90 | 12,002 | +9,5977 | —8,4340 | ,0792 | ,9036 | 202 | +,010 | ,00 |
| 1604 | 3 | + 2 44 38,44 | 12,038 | +9,6730 | +8,4623 | ,0806 | ,9028 | 205 | +,004 | — ,14 |
| 1605 | 3 | +10 46 44,33 | 12,048 | +9,7308 | +9,0510 | ,0809 | ,9026 | 206 | +,023 | + ,23 |
| 1606 | 2 | +56 13 33,05 | 12,053 | +9,9566 | +9,6989 | +1,0811 | +9,9025 | 217 | +,009 | + ,08 |
| 1607 | 4 | + 1 55 55,95 | 12,104 | +9,6637 | +8,3128 | ,0829 | ,9015 | 214 | +,013 | — ,03 |
| 1608 | 3 | — 1 52 37,81 | 12,127 | +9,6180 | —8,2947 | ,0838 | ,9010 | 216 | +,010 | — ,07 |
| 1609 | 2 | +59 52 3,01 | 12,118 | +9,9576 | +9,7185 | ,0834 | ,9012 | 222 | +,007 | — ,22 |
| 1610 | 2 | +49 12 38,91 | 12,156 | +9,9469 | +9,6620 | ,0848 | ,9004 | 226 | +,002 | — ,12 |
| 1611 | 2 | —17 37 56,02 | 12,174 | +9,2380 | —9,2644 | +1,0854 | +9,9000 | 218 | +,008 | — ,01 |
| 1612 | 3 | — 4 57 0,35 | 12,178 | +9,5611 | —8,7181 | ,0856 | ,8999 | 221 | +,009 | — ,17 |
| 1613 | 3 | +48 36 54,78 | 12,178 | +9,9460 | +9,6590 | ,0856 | ,8999 | 230 | +,016 | ,00 |
| 1614 | 2 | +51 17 28,89 | 12,211 | +9,9494 | +9,6771 | ,0867 | ,8993 | 236 | +,011 | + ,07 |
| 1615 | 2 | +12 31 25,58 | 12,229 | +9,7752 | +9,1219 | ,0874 | ,8989 | 231 | —,001 | — ,02 |
| 1616 | 2 | —15 32 47,39 | 12,234 | +9,3139 | —9,2134 | +1,0876 | +9,8987 | 229 | +,009 | — ,13 |
| 1617 | 2 | +12 45 25,18 | 12,253 | +9,7767 | +9,1306 | ,0882 | ,8984 | 235 | +,024 | — ,03 |
| 1618 | 2 | +61 10 48,83 | 12,263 | +9,9552 | +9,7292 | ,0885 | ,8982 | 252 | +,020 | + ,04 |
| 1619 | 2 | + 7 57 2,56 | 12,276 | +9,7324 | +8,9288 | ,0890 | ,8979 | 238 | +,021 | — ,13 |
| 1620 | 1 | +30 0 20,18 | 12,312 | +9,8870 | +9,4876 | ,0903 | ,8971 | 249 | +,004 | — ,17 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h. m. s.* | *s.* | | | | |
| 1621 | Delphini 7 | 1 | 20 31 28,43 | +2,780 | +8,6279 | —8,7367 | +0,4440 | +8,0488 |
| 1622 | Aquarii 7 | 2 | 31 39,80 | 3,127 | 8,6134 | 8,7214 | 0,4951 | —7,3602 |
| 1623 | Delphini 7.8 | 2 | 31 45,57 | 2,829 | 8,6240 | 8,7314 | 0,4516 | +7,9689 |
| 1624 | ——— 7 | 2 | 32 0,13 | 2,921 | 8,6179 | 8,7243 | 0,4655 | +7,7551 |
| 1625 | Cephei 7 | | 32 | 0,179 | 9,0790 | 9,1859 | 9,2528 | +7,0519 |
| 1626 | Delphini 7.8 | 2 | 32 8,12 | 2,828 | +8,6251 | —8,7310 | +0,4515 | +7,9722 |
| 1627 | ——— 8 | 2 | 32 8,57 | 2,830 | ,6249 | ,7308 | ,4518 | +7,9687 |
| 1628 | Aquarii 8.9 | 2 | 32 47,87 | 3,282 | ,6245 | ,7278 | ,5292 | —7,9248 |
| 1629 | ——— 8 | 1 | 33 20,34 | 3,115 | ,6174 | ,7186 | ,4935 | —7,2713 |
| 1630 | Delphini 7 | 2 | 33 22,97 | 2,748 | ,6363 | ,7376 | ,4390 | +8,1023 |
| 1631 | Vulpeculæ 8 | 1 | 33 40,21 | 2,569 | +8,6623 | —8,7622 | +0,4098 | +8,2966 |
| 1632 | Aquarii 8 | 2 | 33 42,71 | 3,281 | ,6268 | ,7264 | ,5160 | —7,9276 |
| 1633 | Delphini 7.8 | 1 | 33 51,45 | 2,865 | ,6264 | ,7253 | ,4571 | +7,9070 |
| 1634 | Capricorni 8 | 2 | 34 4,60 | 3,586 | ,6667 | ,7648 | ,5546 | —8,3147 |
| 1635 | Delphini 8 | 1 | 34 11,63 | 2,823 | ,6305 | ,7286 | ,4507 | +7,9896 |
| 1636 | Delphini 9 | | 35 | 2,778 | +8,6371 | —8,7318 | +0,4437 | +8,0654 |
| 1637 | Cygni 7.8 | 1 | 35 15,49 | 2,341 | ,7078 | ,8018 | ,3694 | +8,4661 |
| 1638 | Delphini 7.8 | 2 | 35 29,41 | 3,004 | ,6228 | ,7157 | ,4777 | +7,4085 |
| 1639 | Cygni 7.8 | 1 | 35 57,04 | 2,344 | ,7090 | ,8003 | ,3700 | +8,4663 |
| 1640 | Vulpeculæ 8.9 | 2 | 36 16,25 | 2,579 | ,6673 | ,7574 | ,4114 | +8,2973 |
| 1641 | Delphini 7.8 | 2 | 36 27,77 | 2,751 | +8,6436 | —8,7329 | +0,4395 | +8,1095 |
| 1642 | Aquarii | | 36 | 3,058 | ,6245 | 8,7133 | 0,4854 | +6,6067 |
| 1643 | Cephei 8 | 1 | 37 2,70 | 0,891 | ,9923 | 9,0798 | 9,9499 | +8,9481 |
| 1644 | Aquarii 8.9 | 1 | 37 8,04 | 3,232 | ,6313 | 8,7178 | 0,5095 | —7,8272 |
| 1645 | Delphini 8 | 2 | 37 45,12 | 2,866 | ,6354 | 8,7196 | 0,4573 | +7,9186 |
| 1646 | Vulpeculæ 8.9 | 2 | 38 25,76 | 2,576 | +8,6733 | —8,7552 | +0,4109 | +8,3081 |
| 1647 | Cygni 8 | 1 | 39 3,30 | 2,473 | ,6930 | 8,7723 | ,3932 | +8,3931 |
| 1648 | Cephei 7.8 | 2 | 39 26,48 | 1,074 | ,9705 | 9,0488 | ,0310 | +8,9196 |
| 1649 | ——— 7 | 2 | 39 42,30 | 1,089 | ,9689 | 9,0461 | ,0370 | +8,9174 |
| 1650 | Capricorni 8 | 2 | 40 2,09 | 3,308 | ,6442 | 8,7194 | ,5196 | —8,0028 |
| 1651 | Cephei 7.8 | 3 | 40 23,75 | 1,094 | +8,9706 | —9,0450 | +0,0390 | +8,9190 |
| 1652 | Vulpeculæ 8 | 2 | 40 43,78 | 2,579 | ,6789 | 8,7516 | ,4114 | +8,3145 |
| 1653 | Equulei 8 | 2 | 40 57,54 | 2,970 | ,6367 | 8,7082 | ,4728 | +7,6182 |
| 1654 | Vulpeculæ 8 | 2 | 41 11,43 | 2,575 | ,6808 | 8,7516 | ,4108 | +8,3198 |
| 1655 | Aquarii 7.8 | 3 | 41 40,93 | 3,035 | ,6365 | 8,7053 | ,4822 | +7,1455 |
| 1656 | Cephei | | 43 | 1,624 | +8,8803 | —8,9442 | +0,2106 | +8,7936 |
| 1657 | Aquarii 8.9 | 1 | 43 10,54 | 3,163 | ,6415 | ,7046 | ,5001 | —7,6137 |
| 1658 | Capricorni 8.9 | 2 | 43 37,33 | 3,372 | ,6594 | ,7208 | ,5279 | —8,1195 |
| 1659 | Aquarii 9 | 2 | 43 40,55 | 3,162 | ,6424 | ,7038 | ,5000 | —7,6079 |
| 1660 | ——— 8.9 | 2 | 43 47,97 | 3,135 | ,6418 | ,7027 | ,4962 | —7,4650 |
| 1661 | Aquarii 8.9 | 2 | 43 50,64 | 3,081 | +8,6409 | —8,7017 | +0,4887 | —6,7381 |
| 1662 | Equulei 7 | 1 | 43 59,75 | 2,945 | ,6445 | ,7046 | ,4691 | +7,7294 |
| 1663 | Capricorni 8 | 2 | 44 10,38 | 3,579 | ,6915 | ,7508 | ,5538 | —8,3473 |
| 1664 | Delphini 7.8 | 1 | 44 26,29 | 2,888 | ,6490 | ,7075 | ,4606 | +7,8943 |
| 1665 | Vulpeculæ 7 | 2 | 44 30,79 | 2,541 | ,6950 | ,7532 | ,4050 | +8,3615 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *a'* | *b'* | *c'* | *d'* | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1621 | 3 | +15 15 57,88 | + 12,313 | +9,7973 | +9,2093 | +1,0903 | +9,8971 | 247 | +,001 | — ,09 |
| 1622 | 2 | — 3 13 30,85 | 12,326 | +9,5899 | —8,5357 | ,0908 | ,8968 | 246 | +,006 | — 08 |
| 1623 | 3 | +12 45 25,38 | 12,336 | +9,7760 | +9,1341 | ,0911 | ,8966 | 251 | +,012 | —1,18 |
| 1624 | 2 | + 7 52 24,31 | 12,354 | +9,7308 | +8,9270 | ,0918 | ,8962 | 253 | +,005 | — ,11 |
| 1625 | 1 | +69 58 5,08 | 12,344 | +9,9489 | +9,7624 | ,0915 | ,8964 | 265 | | — ,19 |
| 1626 | 2 | +12 59 44,84 | 12,363 | +9,7767 | +9,1373 | +1,0921 | +9,8960 | 255 | +,008 | — ,01 |
| 1627 | 1 | +12 43 51,01 | 12,363 | +9,7760 | +9,1339 | ,0921 | ,8960 | 256 | +,010 | — ,06 |
| 1628 | 3 | —11 31 23,59 | 12,409 | +9,4314 | —9,0920 | ,0937 | ,8950 | 259 | +,012 | — ,07 |
| 1629 | 2 | — 2 35 56,19 | 12,445 | +9,6010 | —8,4469 | ,0950 | ,8942 | 260 | +,016 | — ,04 |
| 1630 | 3 | +16 59 35,22 | 12,445 | +9,8089 | +9,2590 | ,0950 | ,8942 | 261 | +,017 | + ,06 |
| 1631 | 2 | +25 30 3,67 | 12,467 | +9,8621 | +9,4281 | +1,0958 | +9,8937 | 268 | +,014 | — ,10 |
| 1632 | 1 | —11 33 1,73 | 12,473 | +9,4314 | —9,0949 | ,0960 | ,8936 | 262 | +,008 | — ,05 |
| 1633 | 2 | +10 59 13,50 | 12,487 | +9,7597 | +9,0751 | ,0964 | ,8933 | 269 | +,016 | — ,11 |
| 1634 | 2 | —26 24 35,19 | 12,500 | +8,6232 | —9,4429 | ,0969 | ,8930 | 266 | +,006 | — ,10 |
| 1635 | 1 | +13 12 33,56 | 12,500 | +9,7789 | +9,1541 | ,0969 | ,8930 | 271 | +,012 | — ,05 |
| 1636 | 2 | +15 32 43,07 | 12,559 | +9,7973 | +9,2252 | +1,0990 | +9,8917 | 275 | | — ,09 |
| 1637 | 2 | +34 57 35,89 | 12,573 | +9,9036 | +9,5557 | ,0994 | ,8914 | 278 | +,036 | — ,17 |
| 1638 | 3 | + 3 29 35,06 | 12,591 | +9,6812 | +8,5838 | ,1001 | ,8910 | 277 | +,010 | — ,07 |
| 1639 | 3 | +34 52 13,94 | 12,618 | +9,9031 | +9,5564 | ,1010 | ,8904 | 283 | +,005 | — ,20 |
| 1640 | | +25 14 | 12,641 | +9,8591 | +9,4298 | ,1018 | ,8899 | 287 | +,001 | |
| 1641 | 2 | +16 59 6,16 | 12,654 | +9,8075 | +9,2662 | +1,1022 | +9,8896 | 288 | +,015 | + ,02 |
| 1642 | | + 0 32 | 12,663 | +9,6444 | +7,7828 | ,1025 | ,8894 | 286 | | |
| 1643 | 3 | +64 33 42,20 | 12,686 | +9,9474 | +9,7571 | ,1033 | ,8889 | 295 | ,000 | — ,02 |
| 1644 | 1 | — 9 2 42,54 | 12,703 | +9,4885 | —8,9979 | ,1039 | ,8884 | 290 | +,011 | + ,15 |
| 1645 | 3 | +11 3 6,10 | 12,745 | +9,7589 | +9,0865 | ,1053 | ,8875 | 292 | +,026 | — ,09 |
| 1646 | 3 | +25 30 44,69 | 12,785 | +9,8591 | +9,4395 | +1,1067 | +9,8866 | 300 | +,010 | — ,11 |
| 1647 | 2 | +30 3 46,82 | 12,830 | +9,8808 | +9,5063 | ,1082 | ,8855 | 308 | +,007 | — ,15 |
| 1648 | 2 | +62 45 37,85 | 12,848 | +9,9450 | +9,7559 | ,1088 | ,8851 | 315 | +,046 | — ,07 |
| 1649 | 1 | +62 37 31,58 | 12,866 | +9,9445 | +9,7559 | ,1094 | ,8847 | 317 | +,005 | + ,27 |
| 1650 | 4 | —13 12 37,16 | 12,902 | +9,3927 | —9,1673 | ,1106 | ,8838 | 311 | +,002 | + ,04 |
| 1651 | 3 | +62 37 0,18 | 12,915 | +9,9440 | +9,7576 | +1,1111 | +9,8835 | 326 | +,006 | + ,05 |
| 1652 | 3 | +25 34 41,00 | 12,947 | +9,8579 | +9,4457 | ,1121 | ,8829 | 319 | —,001 | — ,09 |
| 1653 | 3 | + 5 28 54,25 | 12,963 | +9,7033 | +8,7923 | ,1127 | ,8823 | 318 | +,013 | — ,12 |
| 1654 | 2 | +25 47 37,91 | 12,978 | +9,8591 | +9,4502 | ,1132 | ,8820 | 324 | ,000 | — ,06 |
| 1655 | 2 | + 1 49 46,15 | 13,014 | +9,6618 | +8,3214 | ,1144 | ,8811 | 327 | +,007 | — ,10 |
| 1656 | | +54 57 | 13,102 | +9,9390 | +9,7285 | +1,1172 | +9,8791 | 349 | | |
| 1657 | 3 | — 5 24 22,17 | 13,110 | +9,5575 | —8,7879 | ,1176 | ,8788 | 340 | +,017 | — ,21 |
| 1658 | 2 | —16 46 29,83 | 13,141 | +9,2945 | —9,2768 | ,1186 | ,8780 | 343 | +,012 | + ,22 |
| 1659 | 3 | — 5 18 52,13 | 13,141 | +9,5587 | —8,7822 | ,1186 | ,8780 | 344 | +,019 | — ,16 |
| 1660 | 2 | — 3 49 45,75 | 13,148 | +9,5821 | —8,6402 | ,1189 | ,8778 | 346 | +,016 | — ,06 |
| 1661 | 2 | — 0 43 50,53 | 13,149 | +9,6284 | —7,9141 | +1,1189 | +9,8778 | 347 | +,013 | — ,11 |
| 1662 | 2 | + 6 58 22,33 | 13,163 | +9,7185 | +8,9022 | ,1193 | ,8774 | 352 | +,010 | — ,01 |
| 1663 | 2 | —26 55 47,12 | 13,176 | +8,6628 | —9,4736 | ,1198 | ,8771 | 348 | +,013 | — ,15 |
| 1664 | 1 | +10 7 8,29 | 13,189 | +9,7474 | +9,0636 | ,1202 | ,8768 | 354 | +,01 | — ,16 |
| 1665 | 1 | +27 38 23,36 | 13,193 | +9,8651 | +9,4850 | ,1204 | ,8767 | 358 | +,01 | — ,04 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m* *s.* | *s.* | | | | |
| 1666 | Equulei *pre.* 8.9 | 4 | 20 44 38,92 | +2,949 | +8,6456 | —8,7034 | +0,4697 | +7,7147 |
| 1667 | ——— *seq.* 9 | 2 | 44 40,06 | 2,950 | ,6457 | ,7032 | ,4698 | +7,7138 |
| 1668 | Capricorni 7.8 | 1 | 44 41,46 | 3,562 | ,6899 | ,7472 | ,5517 | —8,3346 |
| 1669 | Aquarii 6.7 | | 45 | 3,200 | ,6476 | ,7031 | ,5051 | —7,7623 |
| 1670 | ——— 7.8 | 2 | 45 26,54 | 3,158 | ,6461 | ,7008 | ,4994 | —7,5992 |
| 1671 | Capricorni 8.9 | 1 | 45 36,74 | 3,572 | +8,6939 | —8,7476 | +0,5529 | —8,3467 |
| 1672 | Cephei 8 | 1 | 45 37,24 | 0,408 | 9,0970 | 9,1517 | 9,6107 | +9,0681 |
| 1673 | Microscopii 8.9 | 2 | 45 45,54 | 3,697 | 8,7175 | 8,7707 | 0,5678 | —8,4435 |
| 1674 | Capricorni 8 | 1 | 45 47,41 | 3,353 | 8,6621 | 8,7153 | 0,5254 | —8,0998 |
| 1675 | Equulei 7.8 | 1 | 45 54,05 | 3,010 | 8,6461 | 8,6990 | 0,4786 | +7,4127 |
| 1676 | Aquarii 8 | 1 | 46 18,58 | 3,204 | +8,6503 | —8,7015 | +0,5057 | —7,7820 |
| 1677 | Delphini 9.10 | | 46 | 2,877 | ,6548 | ,7047 | ,4589 | +7,9289 |
| 1678 | Aquarii 8 | 1 | 46 48,48 | 3,047 | ,6474 | ,6968 | ,4839 | +6,9684 |
| 1679 | Equulei 7.8 | 2 | 47 3,42 | 2,947 | ,6510 | ,6994 | ,4694 | +7,7318 |
| 1680 | Capricorni 8.9 | 1 | 47 35,47 | 3,362 | ,6673 | ,7134 | ,5266 | —8,1199 |
| 1681 | Equulei 8 | 2 | 47 44,40 | 2,944 | +8,6526 | —8,6984 | +0,4689 | +7,7426 |
| 1682 | Capricorni 9 | 1 | 48 0,27 | 3,367 | ,6689 | ,7134 | ,5272 | —8,1294 |
| 1683 | Aquarii 8 | 1 | 48 19,74 | 3,191 | ,6539 | ,6974 | ,5039 | —7,7449 |
| 1684 | Microscopii 8 | 2 | 48 25,80 | 3,694 | ,7239 | ,7669 | ,5675 | —8,4519 |
| 1685 | Aquarii 7.8 | 2 | 48 27,53 | 3,049 | ,6509 | ,6939 | ,4842 | +6,9407 |
| 1686 | Aquarii 7 | 2 | 48 55,60 | 3,135 | +8,6528 | —8,6940 | +0,4962 | —7,4796 |
| 1687 | Cephei 7.8 | 3 | 49 43,73 | 1,447 | ,9376 | ,9763 | ,1605 | +8,8693 |
| 1688 | Aquarii 7 | 2 | 50 10,02 | 3,144 | ,6556 | ,6923 | ,4975 | —7,5454 |
| 1689 | Capricorni 8 | 2 | 50 14,43 | 3,378 | ,6750 | ,7114 | ,5287 | —8,1531 |
| 1690 | Aquarii 8 | 2 | 50 15,61 | 3,136 | ,6556 | ,6917 | ,4964 | —7,4919 |
| 1691 | Capricorni 7.8 | 3 | 50 32,12 | 3,589 | +8,7092 | —8,7441 | +0,5550 | —8,3803 |
| 1692 | Cygni 8 | 2 | 50 56,18 | 2,4[illegible]3 | ,7306 | ,7645 | ,3897 | +8,4628 |
| 1693 | Aquarii 9.10 | | 51 | 3,096 | ,6569 | ,6890 | ,4908 | —7,1118 |
| 1694 | ——— 8 | 3 | 52 0,97 | 3,170 | ,6605 | ,6900 | ,5011 | —7,6785 |
| 1695 | Cygni 8 | 2 | 52 20,97 | 2,228 | ,7791 | ,8077 | ,3479 | +8,5937 |
| 1696 | Cygni 8 | 2 | 52 21,79 | 2,247 | +8,7748 | —8,8034 | +0,3516 | +8,5835 |
| 1697 | Delphini 7.8 | 2 | 52 36,72 | 2,907 | ,6638 | ,6936 | ,4634 | +7,8753 |
| 1698 | ——— 9 | 5 | 52 47,64 | 2,907 | ,6654 | ,6922 | ,4634 | +7,8769 |
| 1699 | Equulei 8 | 2 | 53 24,37 | 2,957 | ,6638 | ,6880 | ,4708 | +7,7209 |
| 1700 | Aquarii 8 | 1 | 53 35,82 | 3,271 | ,6706 | ,6941 | ,5147 | —7,9813 |
| 1701 | Equulei 7.8 | 2 | 53 39,84 | 3,535 | +8,7067 | —8,7299 | +0,5484 | —8,3438 |
| 1702 | Vulpeculæ 8 | 2 | 54 25,22 | 2,707 | ,6913 | ,7118 | ,4325 | +8,2353 |
| 1703 | Aquarii 7.8 | 2 | 54 32,45 | 3,094 | ,6633 | ,6833 | ,4905 | —7,0955 |
| 1704 | Capricorni 7.8 | 3 | 54 45,98 | 3,395 | ,6873 | ,7063 | ,5308 | —8,1941 |
| 1705 | Aquarii 8.9 | 3 | 54 59,28 | 3,184 | ,6672 | ,6854 | ,5030 | —7,7448 |
| 1706 | Microscopii 7.8 | 1 | 55 55,65 | 3,933 | +8,7951 | —8,8095 | +0,5947 | —8,6208 |
| 1707 | Vulpeculæ 7 | 2 | 55 56,84 | 2,549 | ,7215 | ,7361 | ,4064 | +8,3983 |
| 1708 | Cygni 7 | 2 | 56 3,90 | 2,294 | ,7748 | ,7893 | ,3606 | +8,5726 |
| 1709 | Equulei 7 | 2 | 56 24,65 | 3,030 | ,6672 | ,6801 | ,4814 | +7,2738 |
| 1710 | Vulpeculæ 8 | 2 | 56 30,51 | 2,548 | ,7229 | ,7356 | ,4062 | +8,4011 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1666 | 2 | + 6 43 6,30 | + 13,203 | +9,7152 | +8,8878 | +1,1206 | +9,8765 | 355 | +,019 | + ,03 |
| 1667 | 2 | + 6 42 31,27 | 13,207 | +9,7152 | +8,8869 | ,1208 | ,8763 | 356 | —,060 | — ,04 |
| 1668 | 2 | —26 11 24,36 | 13,211 | +8,7559 | —9,4636 | ,1209 | ,8762 | 353 | +,033 | — ,12 |
| 1669 | 1 | — 7 30 13,48 | 13,242 | +9,5211 | —8,9347 | ,1219 | ,8755 | 360 | | — ,09 |
| 1670 | 2 | — 5 9 35,68 | 13,255 | +9,5623 | —8,7735 | ,1224 | ,8751 | 364 | +,001 | — ,16 |
| 1671 | 2 | —26 43 48,23 | 13,273 | +8,7076 | —9,4738 | +1,1229 | +9,8747 | 361 | +,032 | — ,08 |
| 1672 | | +69 19 | 13,255 | +9,9320 | +9,7916 | ,1224 | ,8751 | 374 | +,057 | |
| 1673 | 2 | —32 10 16,42 | 13,281 | —8,4914 | —9,5473 | ,1232 | ,8745 | 363 | +,007 | — ,04 |
| 1674 | 1 | —15 54 2,98 | 13,281 | +9,3243 | —9,2589 | ,1232 | ,8745 | 367 | +,007 | — ,14 |
| 1675 | 2 | + 3 20 17,42 | 13,286 | +9,6785 | +8,5881 | ,1234 | ,8743 | 368 | +,011 | — ,17 |
| 1676 | | — 7 47 | 13,317 | +9,5172 | —8,9541 | +1,1244 | +9,8736 | 369 | +,014 | |
| 1677 | | +10 49 | 13,337 | +9,7528 | +9,0972 | ,1251 | ,8730 | 371 | | |
| 1678 | | + 1 12 | 13,347 | +9,6532 | +8,1444 | ,1254 | ,8728 | 372 | +,008 | |
| 1679 | 2 | + 6 54 38,17 | 13,363 | +9,7168 | +8,9047 | ,1259 | ,8723 | 373 | +,012 | — ,02 |
| 1680 | 2 | —16 28 28,75 | 13,406 | +9,3117 | —9,2778 | ,1273 | ,8713 | 375 | +,009 | ,00 |
| 1681 | 1 | + 7 2 50,39 | 13,407 | +9,7185 | +8,9154 | +1,1273 | +9,8712 | 378 | +,002 | — ,09 |
| 1682 | 2 | —16 47 49,95 | 13,428 | +9,3032 | —9,2866 | ,1280 | ,8706 | 377 | +,018 | — ,05 |
| 1683 | 2 | — 7 5 42,19 | 13,446 | +9,5302 | —8,9176 | ,1286 | ,8702 | 385 | +,013 | ,00 |
| 1684 | 2 | —32 19 50,86 | 13,455 | —8,4624 | —9,5549 | ,1289 | ,8699 | 384 | +,020 | — ,10 |
| 1685 | 2 | + 1 6 0,14 | 13,455 | +9,6513 | +8,1167 | ,1289 | ,8699 | 388 | +,009 | — ,16 |
| 1686 | 2 | — 3 51 42,72 | 13,485 | +9,5832 | —8,6549 | +1,1298 | +9,8691 | 390 | +,013 | + ,01 |
| 1687 | 4 | +58 41 11,27 | 13,532 | +9,9325 | +9,7610 | ,1312 | ,8680 | 400 | +,015 | + ,06 |
| 1688 | 3 | — 4 28 20,48 | 13,563 | +9,5752 | —8,7202 | ,1323 | ,8670 | 396 | +,007 | — ,06 |
| 1689 | 2 | —17 30 34,75 | 13,567 | +9,2878 | —9,3086 | ,1325 | ,8669 | 394 | +,027 | + ,06 |
| 1690 | 3 | — 3 56 47,59 | 13,572 | +9,5821 | —8,6669 | ,1326 | ,8668 | 397 | +,014 | — ,10 |
| 1691 | 3 | —27 58 20,14 | 13,588 | +8,5798 | —9,5025 | +1,1333 | +9,8662 | 398 | +,015 | — ,11 |
| 1692 | 3 | +32 40 18,40 | 13,610 | +9,8814 | +9,5643 | ,1338 | ,8658 | 407 | +,016 | + ,03 |
| 1693 | | — 1 38 | 13,640 | +9,6170 | —8,2877 | ,1348 | ,8649 | 408 | | |
| 1694 | 4 | — 5 59 35,66 | 13,682 | +9,5514 | —8,8522 | ,1362 | ,8638 | 416 | +,008 | — ,11 |
| 1695 | 3 | +40 43 30,40 | 13,699 | +9,9058 | +9,6493 | ,1367 | ,8633 | 420 | +,020 | + ,03 |
| 1696 | 3 | +40 3 53,26 | 13,699 | +9,9042 | +9,6434 | +1,1367 | +9,8633 | 421 | +,011 | — ,12 |
| 1697 | 2 | + 9 21 26,93 | 13,677 | +9,7380 | +9,0456 | ,1360 | ,8639 | 419 | +,018 | — ,09 |
| 1698 | 1 | + 9 21 33,13 | 13,729 | +9,7380 | +9,0472 | ,1376 | ,8625 | 422 | +,015 | — ,05 |
| 1699 | 1 | + 6 31 40,30 | 13,772 | +9,7110 | +8,8942 | ,1390 | ,8613 | 427 | +,010 | — ,06 |
| 1700 | 3 | —11 49 14,38 | 13,784 | +9,4425 | —9,1481 | ,1394 | ,8609 | 426 | +,019 | — ,08 |
| 1701 | 3 | —25 42 57,50 | 13,788 | +8,8808 | —9,4747 | +1,1395 | +9,8608 | 425 | +,019 | — ,13 |
| 1702 | 2 | +20 27 48,98 | 13,835 | +9,8189 | +9,3830 | ,1410 | ,8595 | 434 | +,019 | — ,03 |
| 1703 | 3 | — 1 33 57,23 | 13,843 | +9,6180 | —8,2714 | ,1412 | ,8592 | 432 | +,005 | + ,06 |
| 1704 | 2 | —18 45 13,89 | 13,860 | +9,2528 | —9,3465 | ,1418 | ,8588 | 433 | +,003 | ,00 |
| 1705 | 2 | — 6 52 56,19 | 13,873 | +9,5378 | —8,9178 | ,1422 | ,8584 | 438 | +,014 | + ,05 |
| 1706 | 1 | —42 1 58,26 | 13,936 | —9,2014 | —9,6678 | +1,1441 | +9,8566 | 442 | —,037 | — ,15 |
| 1707 | 1 | +28 20 28,68 | 13,932 | +9,8591 | +9,5188 | ,1440 | ,8567 | 447 | +,009 | — ,06 |
| 1708 | 2 | +38 51 55,43 | 13,935 | +9,8971 | +9,6399 | ,1441 | ,8566 | 452 | —,002 | — ,02 |
| 1709 | 1 | + 2 17 42,30 | 13,961 | +9,6656 | +8,4496 | ,1449 | ,8558 | 448 | +,014 | ,00 |
| 1710 | 2 | +28 26 46,02 | 13,965 | +9,8591 | +9,5213 | ,1450 | ,8557 | 453 | —,001 | — ,25 |

| No. | Star's name and Mag. | | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | *a* | *b* | *c* | *d* |
| | | | | *h. m. s.* | *s.* | | | | |
| 1711 | Cygni | 6.7 | 2 | 20 56 43,35 | +2,319 | +8,7710 | —8,7829 | +0,3653 | +8,5607 |
| 1712 | Vulpeculæ | | | 57 | 2,659 | ,7047 | ,7151 | ,4247 | +8,2998 |
| 1713 | Microscopii | 7.8 | 2 | 57 44,84 | 3,657 | ,7397 | ,7473 | ,5631 | —8,4603 |
| 1714 | Vulpeculæ | 8 | 3 | 57 56,95 | 2,664 | ,7056 | ,7129 | ,4255 | +8,2968 |
| 1715 | Capricorni | 8 | 2 | 58 0,52 | 3,352 | ,6885 | ,6953 | 52,53 | —8,1448 |
| 1716 | Capricorni | 7.8 | 2 | 58 5,15 | 3,348 | +8,6882 | —8,6945 | +0,5248 | —8,1386 |
| 1717 | ——— | 7 | 2 | 58 11,98 | 3,409 | ,6996 | ,7027 | ,5327 | —8,2251 |
| 1718 | Vulpeculæ | 7 | 2 | 58 30,28 | 2,553 | ,7268 | ,7319 | ,4070 | +8,4050 |
| 1719 | Capricorni | 8 | 3 | 58 50,57 | 3,345 | ,6894 | ,6929 | ,5240 | —8,1367 |
| 1720 | Aquarii | 7 | 2 | 59 2,10 | 3,171 | ,6744 | ,6775 | ,5012 | —7,7090 |
| 1721 | Equulei | 8 | 3 | 59 5,41 | 3,010 | +8,6728 | —8,6756 | +0,4786 | +7,4585 |
| 1722 | Vulpeculæ | 8 | 1 | 59 15,43 | 2,600 | ,7196 | ,7219 | ,4150 | +8,3659 |
| 1723 | Cygni | 8 | 2 | 59 32,25 | 2,310 | ,7803 | ,7816 | ,3636 | +8,5762 |
| 1724 | Vulpeculæ | 8.9 | 1 | 21 0 7,12 | 2,672 | ,7092 | ,7082 | ,4268 | +8,2972 |
| 1725 | Microscopii | 7.8 | 2 | 0 14,18 | 3,620 | ,7383 | ,7365 | ,5587 | —8,4418 |
| 1726 | Capricorni | 7.8 | 2 | 0 14,71 | 3,361 | +8,6943 | —8,6925 | +0,5265 | —8,1663 |
| 1727 | Equulei | 7 | 2 | 0 22,08 | 2,963 | ,6771 | ,6751 | ,4717 | +7,7220 |
| 1728 | Cygni | 8 | 1 | 0 33,47 | 1,865 | ,8851 | ,8826 | ,2702 | +8,7816 |
| 1729 | Microscopii | 7.8 | 2 | 0 42,01 | 3,592 | ,7339 | ,7304 | ,5553 | —8,4213 |
| 1730 | Cygni | 9 | 1 | 0 49,48 | 2,310 | ,7839 | ,7801 | ,3636 | +8,5813 |
| 1731 | Capricorni | 8 | 1 | 1 1,26 | 3,344 | +8,6936 | —8,6890 | +0,5243 | —8,1431 |
| 1732 | Equulei | 9 | 1 | 1 10,65 | 3,010 | ,6769 | ,6717 | ,4786 | +7,4647 |
| 1733 | Cygni | 8 | | 1 | 2,060 | ,8435 | ,8370 | ,3139 | +8,7083 |
| 1734 | Equulei | 8 | 3 | 1 41,03 | 3,030 | ,6772 | ,6702 | ,4814 | +7,2807 |
| 1735 | Aquarii | 7.8 | 2 | 1 56,21 | 3,233 | ,6840 | ,6760 | ,5096 | —7,9237 |
| 1736 | Cygni | 8 | 2 | 2 12,88 | 2,534 | +8,7391 | —8,7302 | +0,4038 | +8,4345 |
| 1737 | Equulei | 8 | 1 | 2 16,77 | 2,902 | ,6847 | ,6756 | ,4627 | +7,9279 |
| 1738 | Piscis Aust. | | | 2 | 3,562 | ,7324 | ,7217 | ,5517 | —8,4028 |
| 1739 | Capricorni | 8 | 1 | 2 42,60 | 3,426 | ,7087 | ,6976 | ,5348 | —8,2627 |
| 1740 | Aquarii | 7.8 | 1 | 3 1,96 | 3,321 | ,6950 | ,6826 | ,5213 | —8,1136 |
| 1741 | Cygni | 7.8 | 2 | 3 8,87 | 2,601 | +8,7285 | —8,7158 | +0,4151 | +8,3802 |
| 1742 | Aquarii | 9.10 | 2 | 4 4,02 | 3,195 | ,6854 | ,6692 | ,5045 | —7,8180 |
| 1743 | Picis Aust. | 7.8 | 2 | 4 9,29 | 3,610 | ,7453 | ,7289 | ,5575 | —8,4484 |
| 1744 | Equulei | 7.8 | 2 | 4 18,57 | 2,886 | ,6899 | ,6730 | ,4603 | +7,9757 |
| 1745 | Cygni | 7.8 | 2 | 4 19,39 | 2,598 | ,7314 | ,7145 | ,4146 | +8,3870 |
| 1746 | Vulpeculæ | 8 | 2 | 4 23,94 | 2,676 | +8,7177 | —8,7003 | +0,4275 | +8,3084 |
| 1747 | ——— | 8 | 2 | 4 33,93 | 2,686 | ,7164 | ,6984 | ,4291 | +8,2980 |
| 1748 | Capricorni | 8.9 | 3 | 4 38,20 | 3,418 | ,7115 | ,6930 | ,5338 | —8,2605 |
| 1749 | Aquarii | 7.8 | 1 | 4 49,80 | 3,174 | ,6856 | ,6664 | ,5016 | —7,7439 |
| 1750 | Cygni | 6 | 2 | 5 11,60 | 1,847 | ,9030 | ,8827 | ,2665 | +8,8048 |
| 1751 | Equulei | 8 | 3 | 5 25,39 | 2,896 | +8,6911 | —8,6699 | +0,4618 | +7,9538 |
| 1752 | Capricorni | 8.9 | 2 | 5 37,72 | 3,429 | ,7153 | ,6931 | ,5352 | —8,2781 |
| 1753 | ——— | 7 | 1 | 5 38,68 | 3,449 | ,7185 | ,6963 | ,5377 | —8,3007 |
| 1754 | Equulei | 9 | 2 | 6 17,44 | 2,897 | ,6921 | ,6688 | ,4619 | +7,9534 |
| 1755 | Aquarii | 8 | 2 | 7 0,29 | 3,226 | ,6931 | ,6655 | ,5087 | —7,9233 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *a′* | *b′* | *c′* | *d′* | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1711 | 1 | +38 0 43,46 | +13,976 | +9,8938 | +9,6331 | +1,1454 | +9,8553 | 455 | +,017 | — ,02 |
| 1712 | 1 | +23 10 32,99 | 14,002 | +9,8331 | +9,4394 | ,1462 | ,8546 | 457 | | + ,15 |
| 1713 | 2 | —31 42 50,84 | 14,048 | —7,7781 | —9,5662 | ,1476 | ,8532 | 459 | +,025 | + ,09 |
| 1714 | 2 | +22 57 2,58 | 14,053 | +9,8312 | +9,4371 | ,1478 | ,8531 | 464 | +,011 | — ,02 |
| 1715 | 2 | —16 37 27,31 | 14,061 | +9,3263 | —9,3024 | ,1480 | ,8529 | 460 | +,027 | + ,03 |
| 1716 | 3 | —16 23 37,58 | 14,069 | +9,3324 | —9,2966 | +1,1483 | +9,8526 | 461 | —,008 | — ,09 |
| 1717 | 3 | —19 44 23,89 | 14,074 | +9,2253 | —9,3749 | ,1484 | ,8525 | 462 | —,005 | — ,11 |
| 1718 | 1 | +28 26 44,01 | 14,090 | +9,8573 | +9,5251 | ,1489 | ,8520 | 467 | +,003 | — ,04 |
| 1719 | 3 | —16 16 42,57 | 14,114 | +9,3385 | —9,2950 | ,1497 | ,8512 | 466 | +,005 | — ,11 |
| 1720 | 3 | — 6 13 52,45 | 14,123 | +9,5490 | —8,8825 | ,1499 | ,8510 | 470 | +,025 | + ,12 |
| 1721 | 4 | + 3 29 15,68 | 14,127 | +9,6776 | +8,6338 | +1,1501 | +9,8509 | 471 | +,009 | — ,06 |
| 1722 | 1 | +26 16 21,32 | 14,136 | +9,8470 | +9,4946 | ,1503 | ,8506 | 473 | +,008 | + ,05 |
| 1723 | 1 | +38 40 22,47 | 14,152 | +9,8932 | +9,6447 | ,1508 | ,8501 | 480 | —,003 | — ,01 |
| 1724 | | +22 45 | 14,189 | +9,8280 | +9,4380 | ,1520 | ,8490 | 482 | +,015 | |
| 1725 | 3 | —30 22 54,92 | 14,202 | +8,2553 | —9,5539 | ,1523 | ,8486 | 477 | —,009 | — ,15 |
| 1726 | 1 | —17 16 32,16 | 14,205 | +9,3117 | —9,3225 | +1,1523 | +9,8486 | 481 | +,010 | — ,07 |
| 1727 | 2 | + 6 19 54,93 | 14,206 | +9,7067 | +8,8954 | ,1525 | ,8485 | 484 | +,010 | + ,03 |
| 1728 | 1 | +51 57 56,48 | 14,214 | +9,9149 | +9,7472 | ,1527 | ,8482 | 490 | —,011 | ,00 |
| 1729 | 2 | —29 9 6,09 | 14,231 | +8,5563 | —9,5386 | ,1532 | ,8477 | 483 | +,014 | — ,06 |
| 1730 | 1 | +38 50 25,45 | 14,234 | +9,8921 | +9,6488 | ,1533 | ,8476 | 489 | —,002 | + ,07 |
| 1731 | 2 | —16 21 40,79 | 14,247 | +9,3385 | —9,3012 | +1,1537 | +9,8472 | 487 | +,010 | — ,10 |
| 1732 | 2 | + 3 30 5,39 | 14,262 | +9,6776 | +8,6399 | ,1542 | ,8469 | 488 | +,016 | — ,03 |
| 1733 | 1 | +47 4 34,33 | 14,279 | +9,9079 | +9,7175 | ,1547 | ,8462 | 3 | | + ,05 |
| 1734 | 3 | + 2 16 51,98 | 14,288 | +9,6646 | +8,4565 | ,1550 | ,8459 | 492 | +,015 | — ,03 |
| 1735 | 3 | —11 0 56,43 | 14,304 | +9,4843 | —9,0932 | ,1556 | ,8454 | 493 | +,017 | — ,23 |
| 1736 | 2 | +29 42 48,76 | 14,317 | +9,8597 | +9,5493 | +1,1558 | +9,8450 | 9 | +,027 | — ,11 |
| 1737 | 1 | +10 4 26,64 | 14,321 | +9,7396 | +9,0972 | ,1560 | ,8449 | 5 | +,037 | — ,16 |
| 1738 | | —27 56 | 14,345 | +8,7482 | —9,5251 | ,1567 | ,8441 | 4 | | |
| 1739 | 2 | —20 59 50,06 | 14,353 | +9,1903 | —9,4090 | ,1569 | ,8438 | 8 | +,028 | — ,08 |
| 1740 | 2 | —15 13 34,65 | 14,373 | +9,3729 | —9,2742 | ,1576 | ,8432 | 11 | +,015 | — ,16 |
| 1741 | 2 | +26 38 11,84 | 14,378 | +9,8451 | +9,5075 | +1,1577 | +9,8431 | 13 | +,006 | ,00 |
| 1742 | | — 7 49 | 14,433 | +9,5263 | —8,9900 | ,1594 | ,8412 | 16 | +,003 | |
| 1743 | 3 | —30 19 59,96 | 14,437 | +8,3979 | —9,5606 | ,1595 | ,8411 | 14 | +,045 | — ,15 |
| 1744 | 2 | +11 6 50,64 | 14,447 | +9,7482 | +9,1436 | ,1598 | ,8408 | 19 | +,014 | — ,02 |
| 1745 | 2 | +26 53 13,97 | 14,447 | +9,8457 | +9,5133 | ,1598 | ,8408 | 22 | +,008 | + ,03 |
| 1746 | 2 | +22 55 1,35 | 14,450 | +9,8261 | +9,4487 | +1,1600 | +9,8406 | 23 | +,003 | — ,05 |
| 1747 | 2 | +22 24 52,64 | 14,463 | +9,8228 | +9,4399 | ,1602 | ,8403 | 25 | +,019 | — ,02 |
| 1748 | 2 | —20 45 40,16 | 14,471 | +9,2068 | —9,4075 | ,1605 | ,8401 | 20 | +,004 | — ,16 |
| 1749 | 2 | — 6 34 56,54 | 14,483 | +9,5465 | —8,9171 | ,1608 | ,8398 | 24 | +,002 | — ,01 |
| 1750 | 2 | +52 53 44,18 | 14,498 | +9,9101 | +9,7612 | ,1613 | ,8391 | 32 | +,013 | — ,07 |
| 1751 | 2 | +10 32 25,18 | 14,515 | +9,7435 | +9,1225 | +1,1618 | +9,8386 | 29 | +,031 | — ,11 |
| 1752 | 3 | —21 27 28,06 | 14,531 | +9,1818 | —9,4231 | ,1623 | ,8381 | 28 | —,001 | — ,11 |
| 1753 | 2 | —22 29 18,34 | 14,531 | +9,1399 | —9,4425 | ,1623 | ,8381 | 27 | +,010 | — ,07 |
| 1754 | 2 | +10 30 44,52 | 14,547 | +9,7427 | +9,1221 | ,1628 | ,8375 | 36 | —,007 | — ,13 |
| 1755 | 2 | — 9 47 55,74 | 14,615 | +9,4941 | —9,0931 | ,1648 | ,8353 | 39 | —,002 | — ,20 |

| No. | Star's name and Mag. | | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | *a* | *b* | *c* | *d* |
| | | | | *h.* *m.* *s.* | *s.* | | | | |
| 1756 | Aquarii | 8 | 2 | 21 7 5,87 | +3,230 | +8,6936 | —8,6658 | +0,5092 | —7,9354 |
| 1757 | Capricorni | 7 | 1 | 7 21,29 | 3,415 | ,7167 | ,6879 | ,5334 | —8,2677 |
| 1758 | Piscis Aust. | 7 | 2 | 7 33,45 | 3,625 | ,7564 | ,7269 | ,5593 | —8,4733 |
| 1759 | Cephei | 6.7 | 1 | 7 37,37 | 1,530 | ,9797 | ,9504 | ,1847 | +8,9142 |
| 1760 | Equulei | 7 | 2 | 8 5,14 | 2,907 | ,6952 | ,6638 | ,4634 | +7,9356 |
| 1761 | Equulei | 8 | 2 | 8 11,09 | 2,903 | +8,6957 | —8,6639 | +0,4628 | +7,9467 |
| 1762 | ——— | 7.8 | 2 | 8 34,70 | 2,995 | ,6908 | ,6574 | ,4764 | +7,5934 |
| 1763 | Cephei | 7.8 | 2 | 8 36,71 | 1,529 | ,9832 | ,9501 | ,1844 | +8,9183 |
| 1764 | Piscis Aust. | 7 | 1 | 9 12,16 | 3,579 | ,7506 | ,7147 | ,5538 | —8,4421 |
| 1765 | Cygni | 7 | 1 | 9 13,11 | 2,271 | ,8150 | ,7796 | ,3562 | +8,6351 |
| 1766 | Pegasi | 8.9 | 1 | 9 29,18 | 2,769 | +8,7135 | —8,6768 | +0,4423 | +8,2104 |
| 1767 | Aquarii | 7.8 | 1 | 9 33,42 | 3,275 | ,7022 | ,6653 | ,5152 | —8,0515 |
| 1768 | Piscis Aust. | 7.8 | 2 | 10 12,35 | 3,544 | ,7458 | ,7063 | ,5495 | —8,4155 |
| 1769 | Pegasi | 7.8 | 2 | 10 17,98 | 2,793 | ,7117 | ,6720 | ,4461 | +8,1768 |
| 1770 | Equulei | 7 | 2 | 10 33,73 | 2,937 | ,6974 | ,6566 | ,4679 | +7,8568 |
| 1771 | Pegasi | 7.8 | 1 | 10 45,67 | 2,792 | +8,7127 | —8,6712 | +0,4459 | +8,1798 |
| 1772 | ——— | 8 | 1 | 10 54,35 | 2,788 | ,7135 | ,6715 | ,4453 | +8,1872 |
| 1773 | Aquarii | 7.8 | 1 | 11 1,97 | 3,165 | ,6962 | ,6535 | ,5004 | —7,7261 |
| 1774 | Pegasi | 7 | 2 | 11 33,06 | 2,792 | ,7143 | ,6697 | ,4459 | +8,1839 |
| 1775 | Cygni | 7.8 | 2 | 11 58,93 | 2,572 | ,7538 | ,7075 | ,4103 | +,84403 |
| 1776 | Piscis Aust. | 7.8 | 2 | 12 4,51 | 3,580 | +8,7573 | —8,7105 | +0,5539 | —8,4541 |
| 1777 | Aquarii | 8 | 2 | 12 10,25 | 3,101 | ,6960 | ,6489 | ,4915 | —7,2634 |
| 1778 | Cephei | 7.8 | 2 | 12 20,16 | 1,788 | ,9386 | ,8913 | ,2524 | +8,8527 |
| 1779 | Aquarii | 7.8 | 2 | 12 35,90 | 3,259 | ,7061 | ,6575 | ,5131 | —8,0281 |
| 1780 | Equulei | 7.8 | 3 | 13 47,58 | 3,011 | ,6991 | ,6462 | ,4787 | +7,5050 |
| 1781 | Pegasi | 7 | 2 | 13 58,29 | 2,699 | +8,7321 | —8,6784 | +0,4312 | +8,3097 |
| 1782 | Equulei | 7.8 | 3 | 13 59,07 | 3,009 | ,6995 | ,6458 | ,4784 | +7,5228 |
| 1783 | Aquarii | 8 | 3 | 14 16,10 | 3,133 | ,7003 | ,6453 | ,4960 | —7,5668 |
| 1784 | Pegasi | 8.9 | 2 | 14 35,72 | 2,691 | ,7360 | ,6801 | ,4299 | +8,3306 |
| 1785 | Capricorni | 7.8 | 2 | 14 42,37 | 3,502 | ,7471 | ,6904 | ,5443 | —8,3926 |
| 1786 | Capricorni | 7 | 3 | 14 51,35 | 3,480 | +8,7432 | —8,6860 | +0,5416 | —8,3708 |
| 1787 | ——— | 8.9 | 2 | 14 57,01 | 3,459 | ,7396 | ,6816 | ,5389 | —8,3484 |
| 1788 | Aquarii | 9 | 3 | 15 47,00 | 3,262 | ,7120 | ,6512 | ,5135 | —8,0456 |
| 1789 | Capricorni | 8 | 2 | 16 16,90 | 3,493 | ,7486 | ,6857 | ,5432 | —8,3891 |
| 1790 | Cygni | 7.8 | 1 | 16 25,92 | 2,328 | ,8199 | ,7570 | ,3670 | +8,6302 |
| 1791 | Aquarii | 7.8 | 2 | 16 37,17 | 3,108 | +8,7036 | —8,6394 | +0,4925 | —7,3713 |
| 1792 | Capricorni | 8 | 2 | 16 39,41 | 3,478 | 8,7464 | 8,6823 | +0,5413 | —8,3751 |
| 1793 | Cephei | 9 | 2 | 17 20,93 | 1,746 | 8,9639 | 8,8975 | +0,2420 | +8,8858 |
| 1794 | ——— | 7 | 1 | 17 22,07 | —0,514 | 9,3303 | 9,2647 | —9,7110 | +9,3179 |
| 1795 | Piscis Aust. | 8 | 2 | 17 54,77 | +3,537 | 8,7609 | 8,6918 | +0,5486 | —8,4381 |
| 1796 | Capricorni | 7.8 | 2 | 18 13,88 | 3,398 | +8,7353 | —8,6650 | +0,5312 | —8,2876 |
| 1797 | Aquarii | 8 | 2 | 18 24,93 | 3,288 | ,7195 | ,6487 | ,5169 | —8,1112 |
| 1798 | Capricorni | 8.9 | 2 | 18 52,02 | 3,424 | ,7407 | ,6681 | ,5345 | —8,3217 |
| 1799 | Aquarii | 8.9 | 3 | 19 2,65 | 3,289 | ,7207 | ,6476 | ,5171 | —8,1159 |
| 1800 | ——— | 7 | 2 | 19 11,03 | 3,261 | ,7178 | ,6439 | ,5133 | —8,0571 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1756 | 2 | —10 4 10,64 | +14,619 | +9,4885 | —9,1048 | +1,1649 | +9,8351 | 40 | +,001 | — ,11 |
| 1757 | 2 | —20 51 3,23 | 14,635 | +9,2095 | —9,4144 | ,1654 | ,8346 | 41 | —,012 | — ,18 |
| 1758 | 2 | —31 25 31,39 | 14,647 | +8,1461 | —9,5806 | ,1657 | ,8342 | 42 | +,015 | + ,02 |
| 1759 | | +59 18 | 14,643 | +9,9074 | +9,7982 | ,1656 | ,8343 | 51 | +,007 | |
| 1760 | 3 | +10 0 22,14 | 14,674 | +9,7364 | +9,1050 | ,1666 | ,8332 | 48 | +,014 | — ,18 |
| 1761 | 3 | +10 15 3,50 | 14,682 | +9,7388 | +9,1158 | +1,1668 | +9,8330 | 49 | +,002 | — ,11 |
| 1762 | 4 | + 4 34 16,80 | 14,707 | +9,6866 | +8,7681 | ,1675 | ,8321 | 53 | —,002 | — ,17 |
| 1763 | 1 | +59 25 19,91 | 14,702 | +9,9063 | +9,8005 | ,1674 | ,8323 | 61 | +,018 | — ,09 |
| 1764 | 2 | —29 26 49,72 | 14,746 | +8,6532 | —9,5581 | ,1687 | ,8308 | 55 | +,009 | — ,05 |
| 1765 | 2 | +41 20 30,88 | 14,738 | +9,8887 | +9,6866 | ,1684 | ,8311 | 63 | +,016 | + ,25 |
| 1766 | 1 | +18 16 51,78 | 14,757 | +9,7952 | +9,3640 | +1,1690 | +9,8304 | 62 | +,002 | + ,07 |
| 1767 | 2 | —12 56 50,44 | 14,762 | +9,4346 | —9,2165 | ,1691 | ,8302 | 59 | +,016 | + ,07 |
| 1768 | 2 | —27 53 38,99 | 14,801 | +8,8388 | —9,5380 | ,1703 | ,8288 | 65 | +,014 | + ,05 |
| 1769 | 3 | +16 56 39,91 | 14,806 | +9,7867 | +9,3335 | ,1704 | ,8287 | 67 | +,020 | — ,01 |
| 1770 | 2 | + 8 16 34,31 | 14,822 | +9,7210 | +9,0283 | ,1709 | ,8282 | 68 | +,034 | — ,11 |
| 1771 | 2 | +17 2 10,54 | 14,832 | +9,7867 | +9,3364 | +1,1712 | +9,8277 | 69 | —,006 | + ,04 |
| 1772 | 2 | +17 18 14,82 | 14,840 | +9,7882 | +9,3432 | ,1714 | ,8275 | 73 | +,012 | — ,02 |
| 1773 | 2 | — 6 10 26,72 | 14,853 | +9,5551 | —8,8997 | ,1718 | ,8270 | 70 | +,007 | — ,14 |
| 1774 | 2 | +17 8 19,68 | 14,880 | +8,7875 | +9,3403 | ,1726 | ,8261 | 77 | +,005 | + ,01 |
| 1775 | 2 | +29 3 20,74 | 14,908 | +9,8476 | +9,5579 | ,1734 | ,8251 | 80 | +,010 | — ,02 |
| 1776 | 3 | —29 51 26,75 | 14,914 | +8,6434 | —9,5684 | +1,1736 | +9,8248 | 78 | +,021 | — ,14 |
| 1777 | 2 | — 2 8 45,14 | 14,918 | +9,6117 | —8,4392 | ,1737 | ,8247 | 79 | +,018 | — ,14 |
| 1778 | 2 | +55 6 35,78 | 14,923 | +9,9009 | +9,7859 | ,1738 | ,8245 | 86 | +,010 | — ,16 |
| 1779 | 3 | —12 8 51,70 | 14,942 | +9,4533 | —9,1944 | ,1744 | ,8238 | 82 | +,015 | — ,09 |
| 1780 | 1 | + 3 39 6,51 | 15,008 | +9,6767 | +8,6802 | ,1763 | ,8214 | 90 | +,009 | — ,01 |
| 1781 | 3 | +22 11 48,44 | 15,019 | +9,8142 | +9,4523 | +1,1766 | +9,8210 | 94 | +,016 | + ,09 |
| 1782 | 4 | + 3 47 37,35 | 15,019 | +9,6785 | +8,6979 | ,1766 | ,8210 | 91 | +,022 | — ,12 |
| 1783 | 3 | — 4 14 26,67 | 15,038 | +9,5843 | —8,7417 | ,1772 | ,8203 | 95 | +,026 | — ,07 |
| 1784 | 1 | +23 7 49,13 | 15,053 | +9,8189 | +9,4702 | ,1776 | ,8197 | 103 | —,010 | — ,04 |
| 1785 | 2 | —26 15 29,92 | 15,065 | +8,9868 | —9,5215 | ,1780 | ,8193 | 96 | +,004 | — ,05 |
| 1786 | 3 | —25 7 15,04 | 15,073 | +9,0531 | —9,5038 | +1,1782 | +9,8190 | 98 | +,030 | — ,15 |
| 1787 | 3 | —23 59 18,71 | 15,085 | +9,1106 | —9,4853 | ,1785 | ,8185 | 101 | +,010 | — ,02 |
| 1788 | 3 | —12 28 41,79 | 15,127 | +9,4518 | —9,2114 | ,1797 | ,8169 | 106 | +,015 | + ,06 |
| 1789 | 2 | —25 56 25,30 | 15,157 | +9,0170 | —9,5192 | ,1806 | ,8158 | 108 | +,020 | — ,02 |
| 1790 | 2 | +40 14 2,34 | 15,158 | +9,8774 | +9,6890 | ,1806 | ,8158 | 116 | +,043 | — ,10 |
| 1791 | 3 | — 2 41 22,47 | 15,177 | +9,6052 | —8,5469 | +1,1812 | +9,8150 | 112 | +,009 | — ,05 |
| 1792 | 2 | —25 11 14,40 | 15,177 | +9,0607 | —9,5078 | ,1812 | ,8150 | 111 | +,013 | — ,15 |
| 1793 | 2 | +56 38 9,60 | 15,211 | +9,8938 | +9,8020 | ,1821 | ,8137 | 124 | +,018 | + ,06 |
| 1794 | 2 | +76 19 17,97 | 15,199 | +9,8663 | +9,8674 | ,1818 | ,8142 | 137 | —,064 | + ,08 |
| 1795 | 3 | —28 25 52,00 | 15,248 | +8,8633 | —9,5585 | ,1832 | ,8122 | 121 | +,025 | — ,02 |
| 1796 | 2 | —20 54 57,07 | 15,268 | +9,2405 | —9,4341 | +1,1838 | +9,8115 | 123 | +,008 | — ,11 |
| 1797 | 3 | —14 17 40,15 | 15,275 | +9,4166 | —9,2737 | ,1840 | ,8112 | 125 | +,015 | — ,09 |
| 1798 | 3 | —22 25 20,78 | 15,302 | +9,1903 | —9,4638 | ,1847 | ,8102 | 127 | +,017 | — ,34 |
| 1799 | 3 | —14 24 14,54 | 15,309 | +9,4150 | —9,2781 | ,1849 | ,8099 | 128 | +,026 | — ,12 |
| 1800 | 3 | —12 38 10,13 | 15,320 | +9,4502 | —9,2226 | ,1853 | ,8094 | 130 | —,005 | — ,07 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m* *s.* | *s.* | | | | |
| 1801 | Aquarii 9.10 | 1 | 21 19 14,04 | +3,263 | +8,7182 | —8,6440 | +0,5136 | —8,0625 |
| 1802 | Cygni 9 | | 19 | 2,176 | ,8657 | ,7915 | ,3377 | +8,7227 |
| 1803 | Aquarii 8 | 2 | 19 23,64 | 3,115 | ,7082 | ,6335 | ,4935 | —7,4435 |
| 1804 | Cephei 8 | 2 | 19 46,00 | 1,634 | ,9969 | ,9213 | ,2132 | +8,9303 |
| 1805 | Aquarii 7 | 2 | 19 49,65 | 3,121 | ,7091 | ,6327 | ,4943 | —7,5030 |
| 1806 | Aquarii 7.8 | 1 | 19 50,04 | 3,118 | +8,7089 | —8,6327 | +0,4939 | —7,4690 |
| 1807 | ——— 8.9 | 3 | 20 34,66 | 3,262 | ,7203 | ,6410 | ,5135 | —8,0647 |
| 1808 | ——— 8.9 | 3 | 20 41,10 | 3,293 | ,7240 | ,6445 | ,5176 | —8,1289 |
| 1809 | Vulpeculæ 8 | 2 | 20 56,30 | 2,635 | ,7596 | ,6791 | ,4208 | +8,4149 |
| 1810 | Capricorni 8 | 3 | 20 56,80 | 3,468 | ,7531 | ,6725 | ,5401 | —8,3809 |
| 1811 | Cygni 6.7 | 2 | 21 8,11 | 2,545 | +8,7795 | —8,6984 | +0,4057 | +8,4978 |
| 1812 | ——— 6.7 | 2 | 21 21,06 | 1,969 | ,9231 | ,8412 | ,2942 | +8,8208 |
| 1813 | Equulei 8.9 | 3 | 22 57,82 | 2,996 | ,7146 | ,6264 | ,4765 | +7,6432 |
| 1814 | Cephei 8 | 1 | 23 43,49 | 1,878 | ,9525 | ,8616 | ,2737 | +8,8643 |
| 1815 | Aquarii 8 | 2 | 23 50,84 | 3,171 | ,7178 | ,6259 | ,5012 | —7,8036 |
| 1816 | Piscis Aust. 8.9 | 3 | 23 52,57 | 3,526 | +8,7710 | —8,6791 | +0,5473 | —8,4508 |
| 1817 | Capricorni 8 | 1 | 23 56,89 | 3,397 | 8,7456 | 8,6534 | ,5311 | —8,3074 |
| 1818 | Pegasi 7 | 2 | 24 24,78 | 2,710 | 8,7517 | 8,6578 | ,4330 | +8,3460 |
| 1819 | Cephei 8 | 1 | 24 26,66 | 1,189 | 9,1051 | 9,0114 | ,0752 | +9,0656 |
| 1820 | Piscis Aust. 8.9 | 4 | 24 32,40 | 3,524 | 8,7721 | 8,6774 | ,5470 | —8,4522 |
| 1821 | Capricorni 8.9 | 2 | 24 37,55 | 3,279 | +8,7290 | —8,6343 | +0,5157 | —8,1172 |
| 1822 | Pegasi 7.8 | 2 | 24 59,74 | 2,719 | ,7512 | ,6549 | ,4344 | +8,3374 |
| 1823 | Aquarii 8.9 | 2 | 25 0,29 | 3,172 | ,7196 | ,6233 | ,5013 | —7,8106 |
| 1824 | ——— 8.9 | 2 | 25 8,88 | 3,158 | ,7189 | ,6221 | ,4994 | —7,7465 |
| 1825 | ——— 8.9 | 2 | 25 31,11 | 3,075 | ,7171 | ,6187 | ,5152 | —6,6432 |
| 1826 | Capricorni 8 | 1 | 25 37,89 | 3,390 | +8,7475 | —8,6487 | +0,5302 | —8,3048 |
| 1827 | ——— 8 | 2 | 25 57,16 | 3,211 | ,7240 | ,6241 | ,5066 | —7,9543 |
| 1828 | ——— 8 | 1 | 26 8,01 | 3,369 | ,7449 | ,6439 | ,5275 | —8,2775 |
| 1829 | Cygni 7 | 2 | 26 16,12 | 2,331 | ,8443 | ,7433 | ,3675 | +8,6664 |
| 1830 | Capricorni 7.8 | 4 | 27 13,74 | 3,353 | ,7441 | ,6392 | ,5254 | —8,2586 |
| 1831 | Cephei | | 27 | 1,705 | +9,0066 | —8,9002 | +0,2317 | +8,9391 |
| 1832 | Pegasi 7 | 1 | 28 2,00 | 2,707 | 8,7592 | ,6512 | ,4325 | +8,3642 |
| 1833 | Capricorni 7 | 3 | 28 11,97 | 3,353 | 8,7457 | ,6370 | ,5254 | —8,2613 |
| 1834 | Cygni 8 | 1 | 28 39,92 | 2,589 | 8,7854 | ,6751 | ,4131 | +8,4883 |
| 1835 | Piscis Aust. 8 | 3 | 28 43,62 | 3,470 | 8,7687 | ,6579 | ,5403 | —8,4129 |
| 1836 | Capricorni 7.8 | 2 | 28 45,39 | 3,317 | +8,7412 | —8,6301 | +0,5207 | —8,2059 |
| 1837 | Piscis Aust. 8.9 | 2 | 28 57,49 | 3,513 | 8,7787 | ,6668 | ,5457 | —8,4588 |
| 1838 | 3 Pegasi *pre.* 8 | 3 | 29 33,16 | 2,984 | 8,7253 | ,6113 | ,4748 | +7,7385 |
| 1839 | Cephei 8 | | 29 | 1,593 | 9,0385 | ,9247 | ,2022 | +8,9806 |
| 1840 | Capricorni 8.9 | 2 | 30 18,35 | 3,281 | 8,7387 | ,6216 | ,5160 | —8,1451 |
| 1841 | Cephei 7.8 | 2 | 30 30,61 | 1,326 | +9,0988 | —8,9815 | +0,1225 | +9,0562 |
| 1842 | Cygni 7.8 | 2 | 31 9,57 | 2,423 | 8,8323 | ,7123 | ,3843 | +8,6274 |
| 1843 | Pegasi 8 | 2 | 31 25,61 | 3,048 | 8,7259 | ,6043 | ,4840 | +7,1190 |
| 1844 | Cephei 7.8 | 2 | 31 33,37 | 1,350 | 9,0976 | ,9763 | ,1303 | +9,0544 |
| 1845 | Capricorni 7.8 | 2 | 32 13,15 | 3,402 | 8,7618 | ,6371 | ,5317 | —8,3473 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *a'* | *b'* | *c'* | *d'* | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1801 | 1 | —12 47 44,74 | + 15,323 | +9,4472 | —9,2277 | +1,1854 | +9,8093 | 131 | +,013 | + ,10 |
| 1802 | 3 | +46 0 5,67 | 15,323 | +9,8837 | +9,7405 | ,1854 | ,8093 | 140 | | — ,55 |
| 1803 | 2 | — 3 8 8,28 | 15,332 | +9,5999 | —9,6190 | ,1856 | ,8090 | 135 | +,031 | ,00 |
| 1804 | 1 | +59 3 16,86 | 15,348 | +9,8893 | +9,8174 | ,1860 | ,8084 | 146 | +,031 | — ,07 |
| 1805 | 3 | — 3 35 36,76 | 15,358 | +9,5944 | —8,6782 | ,1863 | ,8079 | 139 | +,006 | + ,06 |
| 1806 | 3 | — 3 19 6,29 | 15,353 | +9,5977 | —8,6444 | +1,1862 | +9,8081 | 138 | +,034 | — ,03 |
| 1807 | 3 | —12 47 24,75 | 15,399 | +9,4502 | —9,2299 | ,1875 | ,8062 | 143 | +,013 | + ,17 |
| 1808 | 2 | —14 44 14,09 | 15,402 | +9,4099 | —9,2905 | ,1876 | ,8061 | 144 | +,021 | — ,16 |
| 1809 | 2 | +26 52 13,23 | 15,418 | +9,8299 | +9,5414 | ,1880 | ,8055 | 151 | +,009 | + ,23 |
| 1810 | 3 | —25 8 31,37 | 15,418 | +9,0864 | —9,5139 | ,1880 | ,8055 | 147 | +,028 | — ,21 |
| 1811 | 2 | +31 30 40,74 | 15,425 | +9,8476 | +9,6045 | +1,1882 | +9,8052 | 153 | +,018 | + ,09 |
| 1812 | 3 | +52 11 19,23 | 15,436 | +9,8865 | +9,7843 | ,1885 | ,8047 | 156 | +,042 | + ,01 |
| 1813 | 3 | + 4 51 39,43 | 15,529 | +9,6857 | +8,8178 | ,1911 | ,8009 | 163 | +,008 | — ,19 |
| 1814 | 1 | +54 42 7,65 | 15,565 | +9,8837 | +9,8020 | ,1922 | ,7993 | 170 | +,024 | — ,02 |
| 1815 | 3 | — 7 1 40,43 | 15,580 | +9,5490 | —8,9765 | ,1926 | ,7987 | 167 | +,017 | — ,03 |
| 1816 | 2 | —28 36 27,49 | 15,580 | +8,9031 | —9,5704 | +1,1926 | +9,7987 | 164 | +,032 | — ,04 |
| 1817 | 3 | —21 23 49,61 | 15,583 | +9,2430 | —9,4525 | ,1927 | ,7986 | 165 | +,044 | + ,04 |
| 1818 | 2 | +23 7 31,68 | 15,610 | +9,8096 | +9,4857 | ,1934 | ,7975 | 174 | +,007 | — ,01 |
| 1819 | 2 | +65 56 38,97 | 15,607 | +9,8751 | +9,8519 | ,1933 | ,7976 | 183 | +,041 | + ,13 |
| 1820 | 4 | —28 37 10,70 | 15,621 | +8,9085 | —9,5718 | ,1937 | ,7970 | 169 | +,013 | — ,02 |
| 1821 | 3 | —14 10 19,08 | 15,621 | +9,4281 | —9,2799 | +1,1937 | +9,7970 | 172 | +,020 | — ,04 |
| 1822 | 2 | +22 40 23,88 | 15,642 | +9,8069 | +9,4785 | ,1943 | ,7960 | 178 | —,004 | — ,01 |
| 1823 | 1 | — 7 5 43,80 | 15,642 | +9,5490 | —8,9833 | ,1943 | ,7960 | 175 | +,027 | — ,08 |
| 1824 | 2 | — 6 8 21,10 | 15,650 | +9,5611 | —8,9201 | ,1945 | ,7957 | 176 | +,012 | — ,45 |
| 1825 | 2 | — 0 30 1,57 | 15,672 | +9,6325 | —7,8193 | ,1951 | ,7948 | 182 | —,001 | ,00 |
| 1826 | 3 | —21 10 9,08 | 15,678 | +9,2553 | —9,4506 | +1,1953 | +9,7945 | 179 | +,017 | — ,01 |
| 1827 | 2 | — 9 48 44,22 | 15,693 | +9,5079 | —9,1240 | ,1957 | ,7938 | 186 | +,012 | — ,21 |
| 1828 | 2 | —19 58 16,30 | 15,708 | +9,2945 | —9,4268 | ,1961 | ,7932 | 187 | +,006 | — ,15 |
| 1829 | 1 | +41 34 33,16 | 15,708 | +9,8669 | +9,7163 | ,1961 | ,7932 | 191 | +,007 | + ,01 |
| 1830 | 2 | —19 7 14,38 | 15,762 | +9,3181 | —9,4101 | ,1976 | ,7908 | 193 | +,011 | — ,04 |
| 1831 | 1 | +58 50 51,64 | 15,783 | +9,8756 | +9,8287 | +1,1982 | +9,7898 | 205 | | — ,01 |
| 1832 | 2 | +23 43 26,73 | 15,805 | +9,8096 | +9,5019 | ,1988 | ,7889 | 200 | +,009 | — ,01 |
| 1833 | 3 | —19 10 1,86 | 15,816 | +9,3201 | —9,4127 | ,1991 | ,7884 | 199 | —,001 | — ,08 |
| 1834 | 3 | +30 16 43,01 | 15,837 | +9,8351 | +9,6006 | ,2000 | ,7874 | 210 | +,023 | — ,14 |
| 1835 | 3 | —26 10 39,44 | 15,843 | +9,0755 | —9,5421 | ,1999 | ,7871 | 204 | +,026 | + ,02 |
| 1836 | 2 | —16 59 5,61 | 15,848 | +9,3729 | —9,3627 | +1,2000 | +9,7869 | 206 | +,014 | — ,05 |
| 1837 | 2 | —28 37 33,53 | 15,859 | +8,9445 | —9,5784 | ,2003 | ,7864 | 207 | +,017 | + ,03 |
| 1838 | 3 | + 5 53 43,78 | 15,888 | +9,6946 | +8,9123 | ,2010 | ,7851 | 216 | +,019 | — ,10 |
| 1839 | | +61 4 | 15,883 | +9,8716 | +9,8411 | ,2009 | ,7853 | 221 | | |
| 1840 | 3 | —14 47 40,66 | 15,930 | +9,4216 | —9,3066 | ,2022 | ,7831 | 218 | +,015 | — ,16 |
| 1841 | 3 | +65 0 30,52 | 15,933 | +9,8663 | +9,8597 | +1,2023 | +9,7830 | 229 | +,017 | — ,16 |
| 1842 | 3 | +38 34 54,09 | 15,972 | +9,8603 | +9,6964 | ,2033 | ,7813 | 228 | +,017 | — ,12 |
| 1843 | 3 | + 1 24 8,68 | 15,990 | +9,6522 | +8,2950 | ,2038 | ,7803 | 227 | +,011 | — ,03 |
| 1844 | 1 | +64 51 13,34 | 15,987 | +9,8663 | +9,8586 | ,2037 | ,7805 | 236 | +,044 | — ,13 |
| 1845 | 3 | —22 40 5,17 | 16,032 | +9,2279 | —9,4886 | ,2050 | ,7783 | 230 | —,010 | + ,02 |

| No. | Star's name and Mag. | | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | *a* | *b* | *c* | *d* |
| | | | | *h. m. s.* | *s.* | | | | |
| 1846 | Capricorni | 8 | 1 | 21 32 17,06 | +3,398 | +8,7609 | —8,6362 | +0,5312 | —8,3416 |
| 1847 | ——— | 8 | 3 | 32 29,28 | 3,291 | ,7434 | ,6179 | ,5173 | —8,1717 |
| 1848 | Aquarii | 8 | 3 | 32 45,03 | 3,067 | ,7276 | ,6010 | ,4867 | +6,7476 |
| 1849 | ——— | 8.9 | 2 | 33 31,97 | 3,073 | ,7287 | ,5990 | ,4876 | —6,5349 |
| 1850 | Capricorni | 9 | 3 | 33 45,14 | 3,196 | ,7347 | ,6039 | ,5046 | —7,9377 |
| 1851 | Cygni | 6.7 | 2 | 35 6,44 | 2,520 | +8,8163 | —8,6805 | +0,4014 | +8,5726 |
| 1852 | Cephei | 7.8 | 2 | 35 16,32 | 1,861 | ,9932 | ,8568 | ,2697 | +8,9160 |
| 1853 | Aquarii | 7.8 | 2 | 35 49,03 | 3,143 | ,7338 | ,5951 | ,4973 | —7,7115 |
| 1854 | Cygni | 8 | 2 | 35 57,61 | 2,402 | ,8497 | ,7107 | ,3806 | +8,6606 |
| 1855 | Pegasi | 7 | 3 | 36 26,17 | 2,751 | ,7658 | ,6246 | ,4395 | +8,3409 |
| 1856 | Cygni | 8 | 2 | 37 3,09 | 2,653 | +8,7878 | —8,6442 | +0,4237 | +8,4601 |
| 1857 | Cephei | 7.8 | 2 | 37 16,80 | 1,869 | ,9977 | ,8533 | ,2716 | +8,9213 |
| 1858 | Pegasi *seq.* | 8 | | 37 | 2,751 | ,7677 | ,6218 | ,4395 | +8,3447 |
| 1859 | Aquarii | 8 | 3 | 37 49,34 | 3,134 | ,7362 | ,5894 | ,4961 | —7,6648 |
| 1860 | Pegasi | 7 | 2 | 38 31,01 | 2,710 | ,7778 | ,6281 | ,4330 | +8,4013 |
| 1861 | Capricorni | 8 | 2 | 38 52,67 | 3,301 | +8,7551 | —8,6038 | +0,5186 | —8,2165 |
| 1862 | Pegasi | 7 | 2 | 38 56,12 | 2,712 | 8,7782 | 8,6269 | ,4333 | +8,4011 |
| 1863 | Cephei | 8 | 1 | 39 44,91 | 1,138 | 9,1694 | 9,0154 | ,0561 | +9,1375 |
| 1864 | Capricorni | 9 | 3 | 39 50,80 | 3,402 | 8,7752 | 8,6210 | ,5317 | —8,3770 |
| 1865 | Aquarii | 8.9 | 3 | 39 58,49 | 3,069 | 8,7376 | 8,5820 | ,4870 | —6,7064 |
| 1866 | Pegasi | 7 | 2 | 40 13,92 | 2,927 | +8,7450 | —8,5887 | +0,4664 | +8,0029 |
| 1867 | ——— | 7.8 | 2 | 41 17,05 | 2,593 | 8,8110 | ,6503 | ,4138 | +8,5358 |
| 1868 | Capricorni | 7.8 | 3 | 41 24,25 | 3,299 | 8,7587 | ,5972 | ,5184 | —8,2230 |
| 1869 | ——— | 8 | 2 | 42 4,28 | 3,405 | 8,7796 | ,6156 | ,5321 | —8,3892 |
| 1870 | Cephei | 8.9 | 2 | 43 10,31 | 1,907 | +9,0069 | ,8386 | ,2803 | +8,9310 |
| 1871 | Cephei | 8 | 2 | 43 11,42 | 1,903 | +9,0081 | —8,8398 | +0,2794 | +8,9327 |
| 1872 | Capricorni | 8 | 3 | 43 40,26 | 3,308 | 8,7636 | ,5932 | ,5196 | —8,2493 |
| 1873 | Cygni | 8 | 2 | 43 41,97 | 2,367 | 8,8792 | ,7090 | ,3742 | +8,7142 |
| 1874 | Pegasi | 7 | 3 | 43 52,30 | 2,810 | 8,7671 | ,5958 | ,4487 | +8,2816 |
| 1875 | ——— | 8.9 | 3 | 44 8,50 | 2,884 | 8,7558 | ,5834 | ,4600 | +8,1354 |
| 1876 | Cephei | 7.8 | 3 | 44 31,09 | 1,751 | +9,0514 | —8,8779 | +0,2433 | +8,9912 |
| 1877 | Capricorni | 8 | 2 | 44 38,41 | 3,350 | 8,7728 | ,5982 | ,5250 | —8,3225 |
| 1878 | Cephei | 8 | 3 | 46 10,84 | 1,747 | 9,0580 | ,8776 | ,2423 | +8,9992 |
| 1879 | Pegasi | 7.8 | 1 | 46 22,64 | 2,546 | 8,8344 | ,6529 | ,4059 | +8,5971 |
| 1880 | Aquarii | 7.8 | 3 | 47 18,47 | 3,047 | 8,7471 | ,5615 | ,4839 | +7,1975 |
| 1881 | Gruis | 8 | 3 | 47 23,78 | 3,649 | +8,8536 | —8,6677 | +0,5622 | —8,6479 |
| 1882 | Cephei | 7 | 2 | 47 25,09 | 1,824 | 9,0425 | ,8570 | ,2610 | +8,9782 |
| 1883 | Capricorni | 7.8 | 2 | 47 59,97 | 3,332 | 8,7746 | ,5863 | ,5227 | —8,3076 |
| 1884 | Pegasi | 7.8 | 2 | 48 21,32 | 2,553 | 8,8369 | ,6472 | ,4070 | +8,5998 |
| 1885 | Cephei | 8 | | 48 | 2,092 | 8,9702 | ,7839 | ,2206 | +8,8740 |
| 1886 | Pegasi | 7.8 | 2 | 48 44,15 | 2,798 | +8,7770 | —8,5856 | +0,4468 | +8,3210 |
| 1887 | ——— | 7.8 | 2 | 48 55,62 | 2,799 | ,7770 | ,5848 | ,4470 | +8,3193 |
| 1888 | Cephei | 7.8 | 2 | 49 21,60 | 1,655 | 9,0920 | ,8984 | ,2188 | +9,0418 |
| 1889 | ——— | 7 | 3 | 49 22,77 | 2,006 | 9,0001 | ,8063 | ,3023 | +8,9179 |
| 1890 | Aquarii | 8 | 3 | 51 1,98 | 3,156 | 8,7547 | ,5538 | ,4991 | —7,8426 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1846 | 3 | −22 24 9,74 | +16,032 | +9,2380 | −9,4837 | +1,2050 | +9,7783 | 231 | +,036 | − ,03 |
| 1847 | 4 | −15 35 2,16 | 16,042 | +9,4099 | −9,3323 | ,2053 | ,7778 | 232 | +,008 | − ,11 |
| 1848 | 3 | + 0 33 54,08 | 16,057 | +9,6434 | +7,9115 | ,2056 | ,7771 | 237 | +,010 | − ,20 |
| 1849 | 4 | − 0 23 50,82 | 16,097 | +9,6335 | −7,7109 | ,2058 | ,7751 | 239 | +,014 | − ,20 |
| 1850 | 2 | − 9 12 28,89 | 16,112 | +9,5224 | −9,1082 | ,2071 | ,7744 | 240 | −,002 | − ,02 |
| 1851 | 4 | +34 45 50,74 | 16,177 | +9,8407 | +9,6632 | +1,2089 | +9,7711 | 253 | +,017 | − ,14 |
| 1852 | 2 | +56 50 22,33 | 16,184 | +9,8639 | +9,8300 | ,2091 | ,7708 | 256 | +,002 | + ,01 |
| 1853 | 3 | − 5 28 45,14 | 16,216 | +9,5752 | −8,8856 | ,2099 | ,7692 | 254 | +,007 | + ,03 |
| 1854 | 3 | +40 18 2,24 | 16,219 | +9,8519 | +9,7190 | ,2100 | ,7690 | 261 | +,008 | − ,05 |
| 1855 | 3 | +22 4 11,30 | 16,246 | +9,7938 | +9,4834 | ,2107 | ,7676 | 262 | +,006 | + ,02 |
| 1856 | 3 | +28 2 3,77 | 16,277 | +9,8176 | +9,5819 | +1,2116 | +9,7661 | 267 | +,010 | − ,12 |
| 1857 | 4 | +56 59 19,88 | 16,287 | +9,8603 | +9,8335 | ,2118 | ,7655 | 277 | +,043 | + ,01 |
| 1858 | 1 | +22 10 1,70 | 16,308 | +9,7924 | +9,4874 | ,2124 | ,7644 | 274 | | − ,20 |
| 1859 | 4 | − 4 52 48,75 | 16,318 | +9,5832 | −8,8393 | ,2127 | ,7639 | 272 | +,023 | − ,17 |
| 1860 | 5 | +24 49 47,46 | 16,354 | +9,8041 | +9,5352 | ,2136 | ,7620 | 279 | +,013 | − ,10 |
| 1861 | 4 | −16 49 57,22 | 16,375 | +9,3944 | −9,3736 | +1,2142 | +9,7609 | 280 | −,013 | − ,16 |
| 1862 | 1 | +24 48 22,82 | 16,375 | +9,8035 | +9,5352 | ,2142 | ,7609 | 284 | +,018 | − ,10 |
| 1863 | 3 | +68 18 11,33 | 16,408 | +9,8414 | +9,8812 | ,2151 | ,7591 | 293 | +,007 | − ,10 |
| 1864 | 3 | −23 34 34,51 | 16,422 | +9,2279 | −9,5153 | ,2154 | ,7584 | 286 | +,013 | + ,03 |
| 1865 | 3 | − 0 33 19,15 | 16,428 | +9,6325 | −7,8825 | ,2156 | ,7580 | 287 | +,013 | − ,12 |
| 1866 | 3 | +10 25 4,87 | 16,438 | +9,7251 | +9,1718 | +1,2159 | +9,7575 | 289 | +,020 | − ,16 |
| 1867 | 2 | +32 2 17,33 | 16,492 | +9,8261 | +9,6401 | ,2173 | ,7546 | 299 | +,012 | + ,09 |
| 1868 | 4 | −16 57 5,50 | 16,502 | +9,3979 | −9,3798 | ,2175 | ,7540 | 296 | +,007 | − ,22 |
| 1869 | 4 | −24 1 45,40 | 16,532 | +9,2201 | −9,5259 | ,2183 | ,7524 | 301 | +,019 | − ,06 |
| 1870 | 3 | +57 5 36,46 | 16,584 | +9,8500 | +9,8419 | ,2197 | ,7494 | 309 | +,004 | + ,03 |
| 1871 | 4 | +57 11 59,62 | 16,584 | +9,8494 | +9,8424 | +1,2197 | +9,7494 | 310 | +,002 | + ,03 |
| 1872 | 4 | −17 49 54,06 | 16,610 | +9,3838 | −9,4041 | ,2204 | ,7479 | 307 | +,021 | + ,02 |
| 1873 | 4 | +43 7 36,16 | 16,607 | +9,8451 | +9,7533 | ,2203 | ,7481 | 313 | +,022 | − ,04 |
| 1874 | 3 | +19 3 38,54 | 16,620 | +9,7730 | +9,4331 | ,2206 | ,7474 | 312 | +,012 | − ,01 |
| 1875 | 4 | +13 50 14,59 | 16,633 | +9,7443 | +9,2986 | ,2210 | ,7466 | 316 | +,012 | − ,05 |
| 1876 | 3 | +60 30 34,89 | 16,647 | +9,8432 | +9,8592 | +1,2213 | +9,7459 | 318 | +,028 | − ,08 |
| 1877 | 4 | −20 46 55,83 | 16,659 | +9,3201 | −9,4694 | ,2216 | ,7451 | 317 | +,012 | + ,03 |
| 1878 | 3 | +60 50 57,10 | 16,727 | +9,8401 | +9,8627 | ,2234 | ,7411 | 328 | +,017 | + ,04 |
| 1879 | 4 | +35 21 24,93 | 16,739 | +9,8274 | +9,6845 | ,2237 | ,7404 | 325 | +,015 | − ,15 |
| 1880 | 3 | + 1 35 18,29 | 16,788 | +9,6522 | +8,3735 | ,2250 | ,7375 | 330 | +,008 | − ,03 |
| 1881 | 3 | −38 31 56,97 | 16,791 | −7,0000 | −9,7174 | +1,2251 | +9,7373 | 329 | +,029 | − ,11 |
| 1882 | 3 | +59 33 17,04 | 16,788 | +9,8395 | +9,8587 | ,2250 | ,7375 | 334 | +,023 | − ,02 |
| 1883 | 4 | −19 58 0,06 | 16,819 | +9,3463 | −9,4568 | ,2258 | ,7355 | 333 | +,007 | − ,13 |
| 1884 | 4 | +35 22 19,11 | 16,836 | +9,8248 | +9,6871 | ,2262 | ,7345 | 337 | +,004 | − ,15 |
| 1885 | 2 | +53 13 35,86 | 16,798 | +9,8432 | +9,8270 | ,2252 | ,7369 | 335 | | − ,02 |
| 1886 | 3 | +20 27 48,83 | 16,854 | +9,7745 | +9,4687 | +1,2267 | +9,7334 | 339 | +,009 | − ,06 |
| 1887 | 3 | +20 22 58,62 | 16,864 | +9,7745 | +9,4673 | ,2269 | ,7328 | 342 | +,004 | − ,10 |
| 1888 | 3 | +62 57 45,90 | 16,879 | +9,8306 | +9,8752 | ,2273 | ,7318 | 349 | +,037 | − ,03 |
| 1889 | 2 | +55 50 11,38 | 16,882 | +9,8388 | +9,8433 | ,2274 | ,7316 | 347 | +,010 | − ,05 |
| 1890 | 3 | − 7 3 18,41 | 16,960 | +9,5635 | −9,0154 | ,2294 | ,7266 | 350 | +,014 | − ,04 |

| No. | Star's name and Mag. | | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | *a* | *b* | *c* | *d* |
| | | | | *h.* *m.* *s.* | *s.* | | | | |
| 1891 | Aquarii | 8 | 3 | 21 51 19,10 | +3,301 | +8,7739 | —8,5717 | +0,5186 | —8,2674 |
| 1892 | ——— | 8 | 3 | 51 36,63 | 3,066 | ,7521 | ,5487 | ,4866 | +6,2158 |
| 1893 | ——— | 8 | 2 | 51 55,66 | 3,409 | ,7980 | ,5932 | ,5326 | —8,4362 |
| 1894 | ——— | 7.8 | 1 | 52 19,33 | 3,301 | ,7755 | ,5690 | ,5186 | —8,2720 |
| 1895 | Pegasi | 8 | 2 | 52 38,73 | 2,724 | ,7997 | ,5921 | ,4352 | +8,4418 |
| 1896 | Aquarii | 8 | 1 | 53 18,11 | 3,091 | +8,7543 | —8,5439 | +0,4901 | —7,2748 |
| 1897 | Cygni | 7.8 | 1 | 53 25,84 | 2,281 | 8,9317 | ,7207 | ,3581 | +8,8051 |
| 1898 | Pegasi | 8 | 2 | 53 42,87 | 2,726 | 8,8011 | ,5890 | ,4355 | +8,4440 |
| 1899 | Aquarii | 8 | 3 | 53 47,54 | 3,436 | 8,8079 | ,5955 | ,5360 | —8,4770 |
| 1900 | Cephei | 7.8 | 2 | 53 53,98 | 1,997 | 9,0174 | ,8047 | ,3004 | +8,9405 |
| 1901 | Pegasi | 7 | 2 | 53 58,17 | 2,943 | +8,7617 | —8,5485 | +0,4688 | +8,0099 |
| 1902 | Aquarii | 8 | 3 | 54 6,59 | 3,088 | ,7552 | ,5414 | ,4897 | —7,2231 |
| 1903 | ——— | 7.8 | 3 | 55 1,70 | 3,355 | ,7906 | ,5728 | ,5257 | —8,3744 |
| 1904 | ——— | 8.9 | 2 | 55 16,06 | 3,237 | ,7691 | ,5501 | ,5101 | —8,1461 |
| 1905 | Piscis Aust. | 8 | 4 | 56 48,43 | 3,459 | ,8200 | ,5939 | ,5389 | —8,5168 |
| 1906 | Pegasi | 8 | 2 | 57 28,22 | 3,006 | +8,7606 | —8,5322 | +0,4780 | +7,7165 |
| 1907 | ——— | 7 | 2 | 57 38,16 | 3,004 | ,7609 | ,5319 | ,4777 | +7,7291 |
| 1908 | Aquarii | 7.8 | 3 | 58 6,39 | 3,355 | ,7956 | ,5643 | ,5257 | —8,3878 |
| 1909 | Pegasi | 7.8 | 1 | 58 18,31 | 3,016 | ,7610 | ,5292 | ,4794 | +7,6476 |
| 1910 | Piscis Aust. | 7 | 1 | 59 8,50 | 3,519 | ,8416 | ,6060 | ,5464 | —8,5881 |
| 1911 | Lacertæ | 7 | 2 | 59 12,76 | 2,412 | +8,9062 | —8,6706 | +0,3824 | +8,7506 |
| 1912 | Aquarii | 7 | 1 | 59 29,41 | 3,403 | ,8095 | ,5724 | ,5319 | —8,4597 |
| 1913 | ——— | 8 | 3 | 59 38,77 | 3,152 | ,7646 | ,5269 | ,4986 | —7,8597 |
| 1914 | Pegasi | 8 | | 59 49 | 2,621 | ,8415 | ,6032 | ,4185 | +8,5863 |
| 1915 | ——— | 7.8 | 2 | 22 0 3,86 | 2,768 | ,8017 | ,5623 | ,4422 | +8,4150 |
| 1916 | Aquarii | 8 | 3 | 0 16,53 | 3,073 | +8,7620 | —8,5213 | +0,4876 | —6,6407 |
| 1917 | ——— | 7 | 2 | 0 49,47 | 3,046 | 8,7628 | ,5196 | ,4837 | +7,2947 |
| 1918 | Cephei | 7 | 1 | 1 38,66 | 2,011 | 9,0397 | ,7935 | ,3034 | +8,9684 |
| 1919 | Lacertæ | 8 | 3 | 2 58,35 | 2,472 | 8,8965 | ,6441 | ,3930 | +8,7253 |
| 1920 | Cephei | 7.8 | 2 | 3 5,50 | 2,004 | 9,0468 | ,7941 | ,3019 | +8,9776 |
| 1921 | Aquarii | 8 | 1 | 3 21,49 | 2,242 | +8,7803 | —8,5262 | +0,5108 | —8,1938 |
| 1922 | Gruis | 7 | 3 | 4 36,11 | 3,650 | 8,8964 | ,6366 | ,5623 | —8,7230 |
| 1923 | Cephei | 7 | 2 | 4 50,36 | 1,787 | 9,1149 | ,8545 | ,2521 | +9,0661 |
| 1924 | Pegasi | 6.7 | 3 | 5 33,06 | 2,640 | 8,8480 | ,5840 | ,4216 | +8,5935 |
| 1925 | ——— | 7.8 | 1 | 5 50,75 | 2,971 | 8,7729 | ,5074 | ,4729 | +7,9526 |
| 1926 | Aquarii | 8 | 3 | 5 57,46 | 3,389 | +8,8172 | —8,5510 | +0,5301 | —8,4705 |
| 1927 | ——— | 7 | 2 | 6 37,93 | 3,138 | 8,7713 | ,5025 | ,4966 | —7,8162 |
| 1928 | Pegasi | 7.8 | 3 | 7 7,85 | 2,793 | 8,8069 | ,5356 | ,4461 | +8,4082 |
| 1929 | Cephei | 7.8 | 2 | 7 16,85 | 1,857 | 9,1048 | ,8332 | ,2688 | +9,0528 |
| 1930 | Aquarii | 9 | 3 | 7 21,22 | 3,273 | 8,7912 | ,5190 | ,5149 | —8,2811 |
| 1931 | Cephei | 6.7 | 2 | 8 40,68 | 1,878 | +9.1043 | —8,8263 | +0,2737 | +9,0517 |
| 1932 | Pegasi | 7.8 | 3 | 9 9,15 | 2,733 | 8,8268 | ,5463 | ,4366 | +8,5038 |
| 1933 | Lacertæ | 8 | 3 | 9 14,80 | 2,463 | 8,9165 | ,6358 | ,3915 | +8,7606 |
| 1934 | Pegasi | 7.8 | 2 | 10 2,98 | 2,924 | 8,7836 | ,4989 | ,4660 | +8,1406 |
| 1935 | Aquarii | 8 | 3 | 10 47,51 | 3,168 | 8,7786 | ,4904 | ,5008 | —7,9870 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1891 | 3 | −18 10 3,88 | +16,977 | +9,3909 | −9,4213 | +1,2298 | +9,7256 | 352 | +,029 | −,01 |
| 1892 | 3 | + 0 8 26,99 | 16,988 | +9,6395 | +7,3919 | ,2301 | ,7248 | 353 | +,016 | −,08 |
| 1893 | 3 | −25 47 33,26 | 17,004 | +9,2068 | −9,5668 | ,2305 | ,7238 | 354 | +,014 | −,12 |
| 1894 | 2 | −18 17 56,69 | 17,023 | +9,3909 | −9,4256 | ,2310 | ,7226 | 356 | +,019 | +,04 |
| 1895 | 4 | +26 0 1,91 | 17,035 | +9,7931 | +9,5715 | ,2313 | ,7218 | 359 | +,017 | +,02 |
| 1896 | 4 | − 1 54 48,53 | 17,065 | +9,6191 | −8,4507 | +1,2321 | +9,7197 | 364 | +,030 | +,06 |
| 1897 | 3 | +48 20 22,68 | 17,072 | +9,8319 | +9,8037 | ,2323 | ,7193 | 368 | +,010 | −,04 |
| 1898 | 2 | +26 2 42,56 | 17,083 | +9,7924 | +9,5735 | ,2326 | ,7185 | 369 | +,006 | −,05 |
| 1899 | 3 | −27 50 16,89 | 17,088 | +9,1461 | −9,5997 | ,2327 | ,7183 | 367 | +,009 | −,06 |
| 1900 | 3 | +56 52 31,96 | 17,090 | +9,8293 | +9,8539 | ,2327 | ,7181 | 373 | +,026 | +,07 |
| 1901 | 3 | +10 11 8,85 | 17,094 | +9,7160 | +9,1791 | +1,2329 | +9,7177 | 370 | +,005 | −,16 |
| 1902 | 3 | − 1 42 21,08 | 17,102 | +9,6222 | −8,3990 | ,2330 | ,7173 | 371 | +,012 | +,03 |
| 1903 | 3 | −22 34 12,21 | 17,144 | +9,3053 | −9,5159 | ,2341 | ,7143 | 377 | +,016 | +,02 |
| 1904 | 3 | −13 48 29,44 | 17,156 | +9,4742 | −9,3095 | ,2344 | ,7135 | 379 | +,003 | 00 |
| 1905 | 4 | −29 51 55,35 | 17,231 | +9,0864 | −9,6311 | ,2363 | ,7082 | 384 | +,003 | −,10 |
| 1906 | 4 | + 5 10 15,74 | 17,255 | +9,6794 | +8,8908 | +1,2369 | +9,7065 | 390 | +,012 | −,13 |
| 1907 | 4 | + 5 18 52,62 | 17,261 | +9,6803 | +8,9033 | ,2371 | ,7061 | 391 | +,013 | −,19 |
| 1908 | 3 | −23 2 11,24 | 17,284 | +9,3032 | −9,5279 | ,2377 | ,7044 | 393 | −,001 | +,12 |
| 1909 | 3 | + 4 23 53,64 | 17,291 | +9,6739 | +8,8224 | ,2378 | ,7040 | 395 | +,006 | −,12 |
| 1910 | 3 | −33 55 29,76 | 17,329 | +8,9031 | −9,6832 | ,2388 | ,7011 | 398 | +,031 | +,04 |
| 1911 | 3 | +44 18 58,77 | 17,329 | +9,8202 | +9,7812 | +1,2388 | +9,7011 | 404 | +,018 | −,03 |
| 1912 | 3 | −26 34 0,41 | 17,343 | +9,2148 | −9,5874 | ,2391 | ,7001 | 400 | −,018 | +,07 |
| 1913 | 3 | − 7 10 54,25 | 17,349 | +9,5670 | −9,0324 | ,2393 | ,6996 | 403 | +,015 | −,05 |
| 1914 | 3 | +33 43 15,23 | 17,355 | +9,8055 | +9,6822 | ,2394 | ,6992 | 409 | | +,06 |
| 1915 | 3 | +24 13 6,47 | 17,367 | +9,7789 | +9,5510 | ,2397 | ,6983 | 411 | +,008 | +,03 |
| 1916 | 4 | − 0 27 42,54 | 17,378 | +9,6335 | −7,8167 | +1,2400 | +9,6974 | 412 | −,001 | −,19 |
| 1917 | 3 | + 1 56 5,73 | 17,404 | +9,6532 | +8,4705 | ,2407 | ,6954 | 417 | +,010 | −,05 |
| 1918 | 2 | +58 2 31,35 | 17,434 | +9,8122 | +9,8681 | ,2414 | ,6932 | 4 | +,015 | −,06 |
| 1919 | 4 | +42 23 4,69 | 17,494 | +9,8122 | +9,7697 | ,2429 | ,6885 | 8 | +,004 | +,07 |
| 1920 | 2 | +58 29 17,02 | 17,496 | +9,8082 | +9,8717 | ,2429 | ,6883 | 12 | +,021 | +,11 |
| 1921 | 4 | −15 1 57,76 | 17,510 | +9,4669 | −9,3548 | +1,2433 | +9,6872 | 7 | +,016 | −,16 |
| 1922 | 3 | −42 9 18,03 | 17,564 | −7,0000 | −9,7693 | ,2446 | ,6828 | 18 | +,074 | −,61 |
| 1923 | 3 | +63 19 2,44 | 17,570 | +9,7959 | +9,8940 | ,2448 | ,6824 | 24 | +,018 | −,02 |
| 1924 | 3 | +33 47 53,38 | 17,602 | +9,7966 | +9,6891 | ,2455 | ,6796 | 29 | +,018 | −,10 |
| 1925 | 3 | + 8 40 8,93 | 17,617 | +9,6998 | +9,1237 | ,2459 | ,6784 | 30 | +,011 | −,05 |
| 1926 | 4 | −26 46 41,63 | 17,623 | +9,2380 | −9,5974 | +1,2461 | +9,6780 | 25 | +,008 | +,01 |
| 1927 | 4 | − 6 23 47,28 | 17,648 | +9,5786 | −8,9896 | ,2467 | ,6759 | 35 | +,016 | −,06 |
| 1928 | 3 | +23 30 10,52 | 17,670 | +9,7679 | +9,5465 | ,2472 | ,6740 | 39 | +,010 | +,05 |
| 1929 | 2 | +62 28 57,17 | 17,672 | +9,7910 | +9,8933 | ,2473 | ,6737 | 42 | −,005 | +,03 |
| 1930 | 3 | −18 1 3,85 | 17,678 | +9,4265 | −9,4354 | ,2474 | ,6733 | 38 | +,017 | +,08 |
| 1931 | 3 | +62 21 2,46 | 17,731 | +9,7882 | +9,8941 | +1,2487 | +9,6687 | 53 | +,017 | +,07 |
| 1932 | 3 | +28 21 26,18 | 17,752 | +9,7803 | +9,6243 | ,2492 | ,6668 | 52 | +,014 | +,01 |
| 1933 | 4 | +44 16 26,93 | 17,754 | +9,1028 | +9,7914 | ,2493 | ,6666 | 55 | +,009 | −,04 |
| 1934 | 2 | +13 8 1,90 | 17,789 | +9,7226 | +9,3052 | ,2502 | ,6634 | 57 | +,013 | −,07 |
| 1935 | 4 | − 9 19 25,97 | 17,819 | +9,5490 | −9,1574 | ,2509 | ,6607 | 59 | +,005 | −,09 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h. m. s.* | *s.* | | | | |
| 1936 | Pegasi 7 | 3 | 22 10 56,84 | +2,856 | +8,7977 | —8,5089 | +0,4558 | +8,3140 |
| 1937 | ——— 7 | | 11 | 2,925 | ,7851 | ,4942 | ,4661 | +8,1459 |
| 1938 | Lacertæ 7 | 2 | 11 45,32 | 2,611 | ,8711 | ,5789 | ,4168 | +8,6502 |
| 1939 | Pegasi 7 | 2 | 12 41,37 | 2,926 | ,7863 | ,4894 | ,4663 | +8,1460 |
| 1940 | Aquarii 7 | 2 | 12 48,76 | 3,142 | ,7780 | ,4805 | ,4972 | —7,8660 |
| 1941 | Pegasi 7 | 2 | 13 9,95 | 2,986 | +8,7792 | —8,4798 | +0,4751 | +7,9127 |
| 1942 | ——— 8 | 2 | 15 17,15 | 3,009 | 8,7793 | ,4700 | ,4784 | +7,7788 |
| 1943 | Aquarii 7.8 | 2 | 15 27,09 | 3,182 | 8,7853 | ,4751 | ,5027 | —8,0659 |
| 1944 | Lacertæ 7.8 | 3 | 15 34,92 | 2,644 | 8,8685 | ,5580 | ,4223 | +8,6362 |
| 1945 | Cephei 7.8 | 3 | 19 16,69 | 1,964 | 9,1200 | ,7913 | ,2931 | +9,0689 |
| 1946 | Pegasi 7.8 | 3 | 19 25,66 | 3,032 | +8,7817 | —8,4524 | +0,4817 | +7,5915 |
| 1947 | ——— 8 | 2 | 20 16,24 | 2,730 | 8,8486 | ,5150 | ,4360 | +8,5607 |
| 1948 | Cephei 7 | 2 | 20 18,21 | 1,987 | 9,1174 | ,7838 | ,2982 | +9,0654 |
| 1949 | Aquarii 8 | 3 | 20 24,93 | 3,172 | 8,7892 | ,4545 | ,5013 | —8,0518 |
| 1950 | ——— 8.9 | 2 | 20 39,06 | 3,172 | 8,7893 | ,4536 | ,5013 | —8,0492 |
| 1951 | Piscis Aust. 9 | 3 | 21 45,66 | 3,326 | +8,8256 | —8,4843 | +0,5219 | —8,4513 |
| 1952 | ——— ——— 8.9 | 2 | 22 11,38 | 3,429 | ,8605 | ,5172 | ,5352 | —8,5986 |
| 1953 | Aquarii 8.9 | 4 | 22 11,53 | 3,180 | ,7920 | ,4487 | ,5024 | —8,0898 |
| 1954 | Pegasi 7.8 | 2 | 22 22,69 | 3,034 | ,7843 | ,4399 | ,4820 | +7,5720 |
| 1955 | Aquarii 8 | 3 | 22 24,66 | 3,179 | ,7922 | ,4475 | ,5023 | —8,0894 |
| 1956 | Aquarii 8 | 4 | 23 24,22 | 3,208 | +8,7982 | —8,4488 | +0,5062 | —8,1943 |
| 1957 | ——— 8 | 3 | 24 12,34 | 3,247 | ,8076 | ,4541 | ,5115 | —8,3049 |
| 1958 | ——— 7 | 4 | 26 34,65 | 3,312 | ,8290 | ,4632 | ,5201 | —8,4520 |
| 1959 | ——— 9 | 2 | 26 58,14 | 3,278 | ,8194 | ,4515 | ,5156 | —8,3886 |
| 1960 | Piscis Aust. 7.8 | 3 | 27 24,49 | 3,402 | ,8614 | ,4914 | ,5317 | —8,5912 |
| 1961 | Aquarii 7.8 | 3 | 27 51,10 | 3,278 | +8,8206 | —8,4481 | +0,5156 | —8,3926 |
| 1962 | Lacertæ 8 | 3 | 28 10,48 | 2,651 | ,8962 | ,5223 | ,4234 | +8,6927 |
| 1963 | ——— *pre.* 7 | | 28 | 2,652 | ,8968 | ,5208 | ,4236 | +8,6938 |
| 1964 | Piscis Aust. 8.9 | 4 | 28 59,47 | 3,346 | ,8440 | ,4659 | ,5245 | —8,5197 |
| 1965 | Aquarii 8 | 3 | 30 46,11 | 3,107 | ,7916 | ,4035 | ,4923 | —7,6814 |
| 1966 | Aquarii 8 | 2 | 32 18,93 | 3,106 | +8,7927 | —8,3962 | +0,4922 | —7,6760 |
| 1967 | Piscis Aust. 8 | 3 | 32 21,90 | 3,333 | 8,8459 | ,4491 | ,5228 | —8,5187 |
| 1968 | Pegasi 8 | 2 | 32 45,36 | 2,947 | 8,8044 | ,4056 | ,4694 | +8,1793 |
| 1969 | Aquarii 8 | 3 | 33 21,81 | 3,163 | 8,8002 | ,3982 | ,5001 | —8,0789 |
| 1970 | Cephei 8 | 2 | 33 22,35 | 2,322 | 9,0511 | ,6491 | ,3659 | +8,9726 |
| 1971 | Aquarii 9 | 3 | 33 37,33 | 3,105 | +8,7937 | —8,3898 | +0,4921 | —7,6686 |
| 1972 | ——— 9 | 3 | 34 51,40 | 3,147 | ,7991 | ,3885 | ,4979 | —8,0052 |
| 1973 | ——— 9 | 4 | 36 1,54 | 3,139 | ,7989 | ,3820 | ,4968 | —7,9661 |
| 1974 | ——— 9 | 4 | 36 31,85 | 3,138 | ,7993 | ,3793 | ,4966 | —7,9639 |
| 1975 | ——— 8.9 | 4 | 37 42,91 | 3,155 | ,8028 | ,3759 | ,4990 | —8,0641 |
| 1976 | Pegasi 8 | 3 | 37 56,24 | 2,802 | +8,8565 | —8,4284 | +0,4475 | +8,5506 |
| 1977 | Lacertæ 8 | 3 | 39 11,54 | 2,601 | ,9500 | ,5150 | ,4151 | +8,8025 |
| 1978 | Aquarii 7.8 | 2 | 39 24,48 | 3,109 | ,7983 | ,3617 | ,4926 | —7,7443 |
| 1979 | ——— 9 | 4 | 39 30,49 | 3,240 | ,8252 | ,3879 | ,5105 | —8,3702 |
| 1980 | Piscis Aust. 8 | 3 | 40 50,12 | 3,368 | ,8772 | ,4319 | ,5274 | —8,6206 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $a'$ | $b'$ | $c'$ | $d'$ | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1936 | 3 | +19 8 45,05 | +17,824 | +9,7482 | +9,4653 | +1,2510 | +9,6602 | 60 | +,016 | — ,08 |
| 1937 | 2 | +13 15 0,34 | 17,843 | +9,7218 | +9,3102 | ,2515 | ,6585 | 62 | | — ,11 |
| 1938 | 3 | +36 56 52,96 | 17,853 | +9,7924 | +9,7289 | ,2517 | ,6575 | 65 | +,004 | + ,06 |
| 1939 | 4 | +13 12 42,36 | 17,893 | +9,7202 | +9,3104 | ,2527 | ,6538 | 69 | +,008 | — ,01 |
| 1940 | 4 | — 7 3 55,81 | 17,898 | +9,5752 | —9,0388 | ,2528 | ,6533 | 68 | +,005 | — ,01 |
| 1941 | 4 | + 7 47 58,66 | 17,913 | +9,6911 | +9,0848 | +1,2532 | +9,6518 | 73 | +,010 | — ,15 |
| 1942 | 4 | + 5 42 53,06 | 17,995 | +9,6776 | +8,9527 | ,2551 | ,6439 | 82 | +,015 | — ,01 |
| 1943 | 4 | —11 1 25,15 | 18,002 | +9,5340 | —9,2339 | ,2553 | ,6431 | 83 | +,004 | — ,10 |
| 1944 | 4 | +35 49 48,51 | 18,005 | +9,7846 | +9,7211 | ,2554 | ,6429 | 87 | +,018 | 00 |
| 1945 | 4 | +62 44 20,63 | 18,146 | +9,7612 | +9,9057 | ,2588 | ,6281 | 109 | +,015 | + ,03 |
| 1946 | 4 | + 3 41 22,47 | 18,150 | +9,6628 | +8,7667 | +1,2589 | +9,6276 | 106 | +,011 | — ,02 |
| 1947 | 2 | +31 0 16,66 | 18,183 | +9,7701 | +9,6697 | ,2597 | ,6240 | 113 | +,014 | — ,04 |
| 1948 | 3 | +62 29 44,43 | 18,182 | +9,7581 | +9,9055 | ,2597 | ,6240 | 115 | +,002 | + ,05 |
| 1949 | 2 | —10 34 20,81 | 18,190 | +9,5428 | —9,2205 | ,2598 | ,6232 | 110 | +,014 | — ,15 |
| 1950 | 3 | —10 29 56,06 | 18,197 | +9,5453 | —9,2180 | ,2600 | ,6224 | 114 | +,015 | — ,08 |
| 1951 | 3 | —25 0 22,75 | 18,239 | +9,3385 | —9,5847 | +1,2610 | +9,6177 | 119 | +,010 | — ,07 |
| 1952 | 2 | —33 11 30,57 | 18,253 | +9,1367 | —9,6974 | ,2613 | ,6161 | 124 | +,039 | + ,02 |
| 1953 | 4 | —11 27 48,14 | 18,253 | +9,5353 | —9,2572 | ,2613 | ,6161 | 125 | +,012 | — ,01 |
| 1954 | 4 | + 3 29 42,77 | 18,260 | +9,6609 | +8,7473 | ,2615 | ,6152 | 127 | +,007 | — ,08 |
| 1955 | 3 | —11 26 37,57 | 18,262 | +9,5353 | —9,2567 | ,2616 | ,6149 | 126 | +,003 | — ,03 |
| 1956 | 5 | —14 26 5,83 | 18,297 | +9,5024 | —9,3565 | +1,2624 | +9,6110 | 133 | +,007 | — ,01 |
| 1957 | 3 | —18 20 26,43 | 18,325 | +9,4548 | —9,4584 | ,2630 | ,6076 | 138 | +,003 | + ,03 |
| 1958 | 3 | —24 50 12,50 | 18,409 | +9,3579 | —9,5860 | ,2650 | ,5972 | 146 | +,007 | — ,11 |
| 1959 | 4 | —21 46 47,23 | 18,423 | +9,4099 | —9,5325 | ,2653 | ,5954 | 148 | +,015 | — ,04 |
| 1960 | 2 | —32 29 16,05 | 18,436 | +9,1931 | —9,6935 | ,2657 | ,5937 | 154 | —,002 | + ,01 |
| 1961 | 4 | —21 56 14,58 | 18,452 | +9,4082 | —9,5361 | +1,2660 | +9,5916 | 155 | +,014 | + ,03 |
| 1962 | 2 | +38 44 19,23 | 18,461 | +9,7649 | +9,7608 | ,2663 | ,5904 | 159 | +,041 | — ,12 |
| 1963 | 1 | +38 46 51,87 | 18,475 | +9,7642 | +9,7616 | ,2666 | ,5886 | 163 | | — ,26 |
| 1964 | 4 | —28 17 33,19 | 18,488 | +9,2988 | —9,6405 | ,2669 | ,5868 | 162 | +,056 | — ,01 |
| 1965 | 3 | — 4 27 27,57 | 18,551 | +9,3064 | —8,8562 | ,2684 | ,5782 | 171 | +,014 | — ,09 |
| 1966 | 5 | — 4 24 20,84 | 18,601 | +9,6064 | —8,8508 | +1,2695 | +9,5711 | 183 | +,008 | — ,12 |
| 1967 | 4 | —28 6 33,99 | 18,603 | +9,3181 | —9,6404 | ,2696 | ,5707 | 182 | +,002 | + ,03 |
| 1968 | 1 | +13 41 21,39 | 18,614 | +9,7067 | +9,3428 | ,2698 | ,5692 | 186 | +,032 | — ,02 |
| 1969 | 2 | —10 58 50,30 | 18,634 | +9,5514 | —9,2470 | ,2703 | ,5663 | 188 | +,012 | — ,07 |
| 1970 | 3 | +56 32 9,01 | 18,634 | +9,7372 | +9,8900 | ,2703 | ,5663 | 194 | +,043 | + ,14 |
| 1971 | 3 | — 4 19 40,33 | 18,644 | +9,6085 | —8,8435 | +1,2705 | +9,5647 | 191 | +,017 | — ,27 |
| 1972 | 4 | — 9 16 26,40 | 18,683 | +9,5682 | —9,1756 | ,2714 | ,5589 | 204 | +,008 | + ,01 |
| 1973 | 4 | — 8 28 30,16 | 18,718 | +9,5763 | —9,1375 | ,2723 | ,5533 | 206 | +,008 | — ,03 |
| 1974 | 4 | — 8 25 28,09 | 18,735 | +9,5763 | —9,1353 | ,2726 | ,5507 | 208 | +,018 | + ,04 |
| 1975 | 3 | —10 33 22,24 | 18,772 | +9,5587 | —9,2328 | ,2735 | ,5447 | 213 | +,010 | — ,23 |
| 1976 | 4 | +29 35 49,40 | 18,777 | +9,7405 | +9,6658 | +1,2736 | +9,5436 | 214 | —,011 | — ,45 |
| 1977 | 3 | +45 21 12,67 | 18,814 | +9,7404 | +9,8250 | ,2745 | ,5375 | 222 | +,021 | — ,11 |
| 1978 | 2 | — 5 5 35,50 | 18,821 | +9,6042 | —8,9187 | ,2747 | ,5361 | 220 | +,018 | — ,24 |
| 1979 | 4 | —20 33 33,30 | 18,826 | +9,4564 | —9,5178 | ,2748 | ,5354 | 221 | +,002 | — ,18 |
| 1980 | 3 | —33 40 8,50 | 18,867 | +9,2405 | —9,7171 | 2,757 | ,5285 | 224 | +,019 | + ,07 |

| No. | Star's name and Mag. | No. Obs. | Right Ascension Jan. 1, 1836. | Annual Precession. | Logarithms of | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | *a* | *b* | *c* | *d* |
| | | | *h.* *m.* *s.* | *s.* | | | | |
| 1981 | Aquarii 8.9 | 3 | 22 41 40,78 | +3,133 | +8,8027 | —8,3527 | +0,4960 | —7,9622 |
| 1982 | Pegasi 8 | 4 | 44 12,66 | 3,048 | ,8003 | ,3348 | ,4840 | +7,4734 |
| 1983 | Aquarii 8 | 5 | 45 14,73 | 3,109 | ,8025 | ,3304 | ,4926 | —7,7841 |
| 1984 | ——— 9 | 4 | 50 1,27 | 3,106 | ,8054 | ,3023 | ,4922 | —7,7750 |
| 1985 | Andromedæ 8 | 3 | 50 2,84 | 2,749 | ,9101 | ,4075 | ,4592 | +8,7046 |
| 1986 | Pegasi 7.8 | 1 | 50 26,81 | 3,023 | +8,8065 | —8,3012 | +0,4804 | +7,8592 |
| 1987 | Cephei 8 | 4 | 50 52,83 | —0,667 | 9,7798 | 9,2728 | —9,8241 | +9,7774 |
| 1988 | Aquarii 8 | 2 | 51 22,16 | +3,091 | 8,8049 | 8,2934 | +0,4901 | —7,5651 |
| 1989 | ——— 7.8 | 1 | 51 31,33 | 3,268 | 8,8544 | 8,3415 | 0,5143 | —8,5112 |
| 1990 | Pegasi 7.8 | 4 | 51 31,41 | 3,023 | 8,8071 | 8,2943 | 0,4804 | +7,8610 |
| 1991 | Pegasi 8 | 5 | 51 49,82 | 3,023 | +8,8073 | —8,2927 | +0,4804 | +7,8634 |
| 1992 | Andromedæ 8 | 1 | 52 6,26 | 2,580 | 9,0100 | ,4936 | ,4116 | +8,9033 |
| 1993 | Aquarii 8 | 2 | 52 33,33 | 3,237 | 8,8431 | ,3230 | ,5101 | —8,4464 |
| 1994 | Pegasi 8 | 4 | 54 27,80 | 2,965 | 8,8218 | ,2892 | ,4720 | +8,2450 |
| 1995 | ——— 8 | 4 | 58 9,52 | 2,955 | 8,8289 | ,2695 | ,4706 | +8,3107 |
| 1996 | Pegasi 8 | 4 | 58 23,99 | 2,946 | +8,8326 | —8,2711 | +0,4692 | +8,3463 |
| 1997 | Aquarii 8.9 | 4 | 59 54,45 | 3,128 | ,8154 | ,2424 | ,4953 | —8,0500 |
| 1998 | Pegasi 8 | 4 | 59 58,86 | 2,878 | ,8663 | ,2934 | ,4591 | +8,5494 |
| 1999 | ——— 8.9 | 3 | 23 2 24,63 | 3,016 | ,8154 | ,2234 | ,4794 | +8,0057 |
| 2000 | Piscium 7.8 | 2 | 2 54,11 | 3,045 | ,8115 | ,2152 | ,4836 | +7,6693 |
| 2001 | Aquarii 8.9 | 3 | 3 55,63 | 3,062 | +8,8110 | —8,2067 | +0,4860 | +7,1135 |
| 2002 | ——— 7.8 | 4 | 4 25,70 | 3,127 | ,8183 | ,2102 | ,4951 | —8,0762 |
| 2003 | Piscium 8.9 | 3 | 5 11,24 | 3,033 | ,8141 | ,1999 | ,4819 | +7,8544 |
| 2004 | ——— 7.8 | 3 | 5 18,49 | 3,061 | ,8116 | ,1959 | ,4859 | +7,1838 |
| 2005 | Aquarii 8 | 2 | 5 42,62 | 3,243 | ,8713 | ,2522 | ,5109 | —8,5614 |
| 2006 | Pegasi 7.8 | 3 | 5 51,69 | 2,962 | +8,8355 | —8,2153 | +0,4716 | +8,3430 |
| 2007 | Piscium 8 | 4 | 7 15,03 | 3,066 | ,8124 | ,1804 | ,4866 | +6,6911 |
| 2008 | Aquarii 8 | 2 | 7 50,76 | 3,238 | ,8732 | ,2360 | ,5103 | —8,5662 |
| 2009 | Pegasi 8 | 3 | 8 58,37 | 2,974 | ,8330 | ,1952 | ,4733 | +8,3083 |
| 2010 | ——— 8 | 3 | 10 13,41 | 2,924 | ,8627 | ,2048 | ,4660 | +8,5155 |
| 2011 | Pegasi 7.8 | 4 | 10 27,47 | 2,924 | +8,8629 | —8,2026 | +0,4660 | +8,5159 |
| 2012 | Aquarii 9 | 3 | 10 28,73 | 3,141 | ,8275 | ,1672 | ,4971 | —8,2207 |
| 2013 | Piscium 8 | 2 | 10 29,61 | 3,046 | ,8151 | ,1549 | ,4837 | +7,7146 |
| 2014 | Pegasi 7 | 2 | 11 35,41 | 2,950 | ,8500 | ,1794 | ,4698 | +8,4410 |
| 2015 | Andromedæ 7.8 | 3 | 12 13,66 | 2,830 | ,9359 | ,2597 | ,4518 | +8,7518 |
| 2016 | Pegasi 7.8 | 3 | 13 55,09 | 2,940 | +8,8605 | —8,1677 | +0,4683 | +8,4982 |
| 2017 | Aquarii 8.9 | 3 | 14 28,43 | 3,122 | ,8244 | ,1263 | ,4944 | —8,1296 |
| 2018 | Piscium 8 | 4 | 16 1,50 | 3,045 | ,8178 | ,1038 | ,4836 | +7,7847 |
| 2019 | Pegasi 9 | 3 | 16 38,25 | 2,964 | ,8508 | ,1313 | ,4719 | +8,4355 |
| 2020 | Aquarii 8 | 5 | 17 47,52 | 3,128 | ,8294 | ,0973 | ,4953 | —8,2079 |
| 2021 | Aquarii 8.9 | 4 | 17 53,06 | 3,166 | +8,8497 | —8,1162 | +0,5005 | —8,4245 |
| 2022 | ——— 8.9 | 4 | 18 54,29 | 3,126 | ,8297 | ,0855 | ,4950 | —8,2072 |
| 2023 | Piscium 8.9 | 3 | 19 55,57 | 3,047 | ,8191 | ,0639 | ,4839 | +7,7764 |
| 2024 | ——— 8 | 3 | 21 11,88 | 3,048 | ,8195 | ,0501 | ,4840 | +7,7796 |
| 2025 | Gruis 8 | 4 | 21 41,68 | 3,273 | ,9528 | ,1780 | ,5149 | —8,7855 |

| No. | No. Obs. | Declination Jan. 1, 1836. | Annual Precession. | Logarithms of | | | | Piazzi No. | Annual P. M. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *a'* | *b'* | *c'* | *d'* | | A. R. | Decn. |
| | | ° ′ ″ | ″ | | | | | | *s.* | ″ |
| 1981 | 4 | — 8 19 28,87 | + 18,890 | +9,5809 | —9,1337 | +1,2762 | +9,5242 | 228 | +,012 | + ,13 |
| 1982 | 4 | + 2 41 0,03 | 18,962 | +9,6513 | +8,6490 | ,2779 | ,5104 | 237 | +,018 | — ,13 |
| 1983 | 4 | — 5 31 40,98 | 18,993 | +9,6042 | —8,9582 | ,2786 | ,5045 | 242 | +,029 | — ,04 |
| 1984 | 3 | — 5 22 43,20 | 19,122 | +9,6064 | —8,9492 | ,2815 | ,4765 | 259 | +,014 | — ,09 |
| 1985 | 4 | +38 30 48,24 | 19,121 | +9,7210 | +9,7740 | ,2815 | ,4769 | 260 | —,006 | + ,02 |
| 1986 | 2 | + 6 28 3,51 | 19,132 | +9,6665 | +9,0325 | +1,2817 | +9,4745 | 263 | +,008 | — ,08 |
| 1987 | 3 | +83 54 21,26 | 19,138 | +9,5331 | +9,9775 | ,2819 | ,4729 | 280 | ,000 | + ,03 |
| 1988 | 3 | — 3 19 1,64 | 19,155 | +9,6191 | —8,7405 | ,2823 | ,4688 | 269 | +,010 | — ,01 |
| 1989 | 1 | —27 0 37,68 | 19,160 | +9,4048 | —9,6372 | ,2824 | ,4676 | 270 | +,023 | — ,17 |
| 1990 | 5 | + 6 28 51,47 | 19,160 | +9,6674 | +9,0343 | ,2824 | ,4676 | 271 | +,012 | — ,08 |
| 1991 | 3 | + 6 30 22,88 | 19,168 | +9,6674 | +9,0367 | +1,2826 | +9,4659 | 273 | +,009 | — ,01 |
| 1992 | 3 | +51 25 35,35 | 19,174 | +9,6972 | +9,8740 | ,2827 | ,4643 | 276 | +,006 | + ,09 |
| 1993 | 3 | —23 40 3,80 | 19,188 | +9,4487 | —9,5844 | ,2830 | ,4609 | 277 | +,029 | + ,03 |
| 1994 | 4 | +15 21 3,11 | 19,233 | +9,6928 | +9,4053 | ,2840 | ,4495 | 283 | +,013 | — ,16 |
| 1995 | 4 | +17 37 51,53 | 19,322 | +9,6937 | +9,4658 | ,2860 | ,4246 | 300 | +,024 | + ,05 |
| 1996 | 4 | +19 1 34,83 | 19,328 | +9,6955 | +9,4980 | +1,2862 | +9,4228 | 301 | +,029 | — ,02 |
| 1997 | 4 | — 9 53 43,97 | 19,363 | +9,5832 | —9,2196 | ,2870 | ,4120 | 307 | +,018 | — ,20 |
| 1998 | 3 | +28 48 24,85 | 19,363 | +9,7024 | +9,6681 | ,2870 | ,4120 | 309 | +,008 | + ,17 |
| 1999 | 3 | + 8 53 34,80 | 19,418 | +9,6693 | +9,1765 | ,2882 | ,3942 | 3 | +,019 | + ,01 |
| 2000 | 4 | + 4 6 53,92 | 19,430 | +9,6532 | +8,8443 | ,2885 | ,3902 | 5 | +,005 | — ,06 |
| 2001 | 3 | + 1 7 29,26 | 19,451 | +9,6425 | +8,2895 | +1,2889 | +9,3827 | 10 | +,021 | — ,04 |
| 2002 | 4 | —10 27 39,54 | 19,461 | +9,5843 | —9,2451 | ,2892 | ,3791 | 12 | +,012 | — ,02 |
| 2003 | 4 | + 6 17 26,00 | 19,477 | +9,6599 | +9,0279 | ,2895 | ,3734 | 13 | +,020 | + ,03 |
| 2004 | 4 | + 1 18 41,17 | 19,480 | +9,6425 | +8,3598 | ,2896 | ,3718 | 15 | +,005 | + ,03 |
| 2005 | 4 | —29 20 58,14 | 19,488 | +9,4216 | —9,6779 | ,2898 | ,3687 | 16 | +,019 | + ,03 |
| 2006 | 4 | +18 44 35,39 | 19,491 | +9,6866 | +9,4953 | +1,2898 | +9,3677 | 20 | +,008 | — ,01 |
| 2007 | 4 | + 0 24 59,18 | 19,519 | +9,6385 | +7,8672 | ,2905 | ,3564 | 21 | +,014 | — ,22 |
| 2008 | 4 | —29 34 39,58 | 19,531 | +9,4249 | —9,6818 | ,2907 | ,3515 | 25 | +,033 | — ,19 |
| 2009 | 4 | +17 22 0,53 | 19,533 | +9,6821 | +9,4641 | ,2907 | ,3510 | 27 | +,019 | — ,04 |
| 2010 | 4 | +26 42 26,09 | 19,575 | +9,6857 | +9,6426 | ,2917 | ,3319 | 38 | +,014 | — ,03 |
| 2011 | 5 | +26 42 42,69 | 19,581 | +9,6848 | +9,6429 | +1,2918 | +9,3296 | 44 | ,000 | — ,01 |
| 2012 | 2 | —14 20 47,42 | 19,581 | +9,5647 | —9,3830 | ,2918 | ,3296 | 41 | +,045 | — ,06 |
| 2013 | 2 | + 4 30 50,01 | 19,581 | +9,6532 | +8,8893 | ,2918 | ,3296 | 43 | +,063 | — ,26 |
| 2014 | 2 | +22 55 51,44 | 19,601 | +9,6830 | +9,5813 | ,2923 | ,3197 | 48 | +,015 | — ,09 |
| 2015 | 3 | +40 51 31,24 | 19,612 | +9,6656 | +9,8065 | ,2925 | ,3143 | 54 | +,016 | + ,03 |
| 2016 | 4 | +25 42 52,96 | 19,643 | +9,6794 | +9,6289 | +1,2932 | +9,2984 | 60 | +,006 | — ,06 |
| 2017 | 4 | —11 40 26,48 | 19,653 | +9,5866 | —9,2967 | ,2934 | ,2934 | 64 | +,031 | + ,21 |
| 2018 | 4 | + 5 17 8,41 | 19,679 | +9,6532 | +8,9589 | ,2940 | ,2780 | 72 | +,013 | — ,02 |
| 2019 | 3 | +22 34 50,14 | 19,688 | +9,6739 | +9,5769 | ,2942 | ,2727 | 74 | +,013 | + ,07 |
| 2020 | 4 | —13 51 1,80 | 19,707 | +9,5775 | —9,3712 | ,2946 | ,2606 | 79 | +,015 | + ,07 |
| 2021 | 4 | —22 5 28,88 | 19,710 | +9,5237 | —9,5675 | +1,2947 | +9,2593 | 80 | +,007 | — ,09 |
| 2022 | 3 | —13 49 45,35 | 19,725 | +9,5786 | —9,3706 | ,2950 | ,2489 | 85 | +,008 | + ,03 |
| 2023 | 5 | + 5 10 20,83 | 19,741 | +9,6513 | +8,9507 | ,2954 | ,2382 | 93 | +,016 | — ,19 |
| 2024 | 3 | + 5 11 58,52 | 19,760 | +9,6513 | +8,9539 | ,2958 | ,2243 | 98 | +,025 | — ,43 |
| 2025 | 4 | —42 53 14,13 | 19,767 | +9,3117 | —9,8267 | ,2959 | ,2191 | 99 | +,020 | — ,02 |

In addition to the foregoing catalogue—in the years 1836-1837, the places of several Stars—whose *names only* occur in Vols. II and III—have been determined;—and several more—where the result of one observation only had been given, or where discordance among several observations had, occurred or where a large proper motion was observed;—in all these cases, a re-examination of former results has been instituted, and further observations (when necessary) made, as follows.

## SUPPLIMENTARY CATALOGUE OF THE A. R. OF THE FIXED STARS.

| Reference. No. Vol. | Names. | Mean A. R. Jan. 1, 1836.—from former obs. | Mean A. R. Jan. 1, 1836.—from present obs. | Concluded Mean A. R Jan. 1, 1836 | Annual Precesn. | Annual P. M. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | s. | s. | h. m. s. | s. | s | |
| 2 of II | 11 Cassiopeæ β | 6=28,1[illegible] | 3=28,59 | 0 0 28,32 | +3,069 | +0,081 | Piazzi's P. M. is too small.* |
| 2 . III | 61 Andromed. | 3= 1,22 | 3= 1,17 | 5 1,20 | 3,090 | — ,007 | |
| 5 . III | 96 Piscium | 3=58.10 | 1=57,90 | 8 58,05 | 3,075 | — ,010 | The Paramatta observations reduced to 1836 give the place of this star 23′46s: Can the proper motion amount to, 536s.? |
| 21 . II | Tucanæ ζ | 6=27,49 | 3=29,38 | 11 | 2,920 | —— | |
| 41 . II | 15 Cassiopeæ κ | 5=44,19 | 3=44,50 | 23 44,31 | 3,324 | + ,027 | |
| 44 . II | Tucanæ $\beta^1$ | 6=59,50 | 2=59,83 | 23 59,58 | 2,786 | —— | |
| 45 . II | —— $\beta^2$ | 3= 0,36 | 2= 0,54 | 24 0,43 | 2,786 | —— | |
| 46 . II | —— $\beta^3$ | 5=13.73 | 2=13,53 | 25 13,67 | 2,771 | —— | |
| 51 . II | Piscium | 4= 7,83 | 1= 8,02 | 27 7,87 | 3,064 | + ,008 | |
| 27 . III | 117 Andromed. | 2=29,82 | 3=30,10 | 28 29,99 | 3,139 | + ,014 | |
| 55 . II | Ceti | 4=55.00 | 3=55,01 | 28 55,00 | 2,988 | + ,110 | 4 obs. 1832=28m 42,62s; 3 — 1837=28 58,10; ∴ P. M. = +, 108s |
| 56 . II | Piscium | 5= 4,16 | 2= 4,16 | 29 4,16 | 3,074 | + ,019 | |
| 31 . III | 128 Andromed. | 1=55,28 | 3=55,02 | 32 55,09 | 3.150 | + ,027 | |
| 66 . II | Ceti | 5=30,66 | 1=30,73 | 34 30,67 | 2,991 | + ,007 | These results appear discordant; but from the proximity of this star to the pole, the disagreement=only 1″ of arc |
| 91 . II | Cephei | 4=37,24 | 3=38,14 | 47 37,63 | 6,468 | + ,197 | |
| 96 . II | 38 Andromed. η | 7=27,92 | 1=27,71 | 48 27,89 | 3,183 | + ,015 | |
| 108 . II | 74 Piscium $\psi^1$ | 3=54,33 | 1=54,08 | 56 54,27 | 3,191 | — ,003 | |
| 67 . III | μ Cassiopeæ | —— | 2=24,87 | 57 24,87 | 3,526 | + ,403 | Piazzi says the P. M. =+ 5″,70 |
| 69 . II | 190 Piscium† | 2=20,63 | 1=20,32 | 57 20,53 | 3,092 | + ,006 | |
| 109 . III | 27 Ceti | 4=24,38 | 1=24,35 | 57 24,37 | 3,005 | + ,011 | |
| 110 . II | 28 —— | 8=51,59 | 2=51,73 | 57 51.62 | 3,005 | + ,004 | |
| 112 . II | Phœnicis β | 6=45,45 | 3=45.16 | 58 45,35 | 2,698 | —— | |
| 81 . III | 181 Andromed. | 1= 1,95 | 2= 1,73 | 1 1 1,80 | 3.377 | — ,006 | |
| 123 . II | Phœnicis ζ | 2=28,35 | 2=28,55 | 1 28,45 | 2,542 | —— | |
| 132 . II | Piscium $\zeta^1$ | 5=10,27 | 1=10,32 | 5 10,28 | 3,112 | + ,013 | |
| 91 . III | b Ceti | 3= 8,59 | 3= 8,53 | 6 8,56 | 3,009 | + ,017 | |
| 135 . II | 88 Piscium | 6=11,00 | 1=10,99 | 6 11,00 | 3,108 | + ,009 | |
| 97 . III | φ Cassiopeæ | 3=48,94 | 1=49,25 | 9 49,02 | 3,696 | + ,008 | The star observed in 1835 was Piazzi No. 39—Differs—1,42s. from A. S. C. |
| 98 . III | 119 —— | 2=12,98 | 2=14,97 | 10 14,97 | 3,890 | + ,087 | |
| 147 . II | 37 —— δ | 9= 9,02 | 4= 9,16 | 15 9,06 | 3,790 | — ,016 | |
| 102 . III | 242 Piscium | 3=14,41 | 1=14.71 | 15 14,48 | 3,096 | + ,005 | |
| 158 . II | —— | 5=47,59 | 2=47,55 | 19 47.58 | 3,124 | + ,006 | |
| 161 . II | Phœnicis γ | 6=14,34 | 2=14,27 | 21 14,32 | 2,619 | + ,017 | |
| 164 . II | Ceti | 5=58,05 | 3=57.73 | 21 57,93 | 2,836 | —— | |
| 167 . II | Phœnicis δ | 5=24,99 | 3=24,95 | 24 24,97 | 2,497 | —— | |

* This may arise from a variation of the proper motion having taken place.

† See errata.

| Reference. No. Vol. | Names. | Mean A. R. Jan 1, 1836.—from former obs. | Mean A. R. Jan 1, 1836.—from present obs. | Concluded Mean A. R. Jan. 1, 1836. | Annual Precesn. | Annual P. M. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | s. | s. | h. m. s. | s. | s. | |
| 170 of II | 100[1] Piscium | 5= 9,60 | 3= 9,60 | 1 26 9,60 | +3,169 | + ,010 | |
| 176 . II | 51 Andromed. $R^2$ | 6=57.82 | 1=57,92 | 27 57,84 | 3.617 | + ,017 | |
| 178 . II | 102 Piscium $\pi$ | 10=24.86 | 2=24,93 | 28 24,87 | 3,168 | + ,004 | |
| 133 . III | $g$ Cassiopeæ | 3=21,09 | 3=20,59 | 30 20,84 | 4,468 | + ,044 | N. P. D. $20^{0},13'$ |
| 135 . III | 49 Mach. Elect. | 2= 8,16 | 2= 8,35 | 31 8,25 | 2,817 | + ,021 | |
| 138 . III | 137 Cassiopeæ | 1=17,86 | 3=17.83 | 32 17,84 | 3,960 | + ,032 | |
| 146 . III | $e$ Rangifer. | 3=39,92 | 4=40,53 | 38 40,27 | 5.572 | + ,105 | |
| 194 . II | 53 Ceti $\chi^2$ | 6=32.12 | 6=31,97 | 41 32,04 | 2,952 | + ,005 | |
| 167 . III | 147 Cassiopeæ | 2=57,26 | 2=57,53 | 48 57,39 | 5,624 | + ,088 | |
| 170 . III | 150 ——— | 1= 4,46 | 3= 5,43 | 50 5,19 | 5,435 | + ,020 | N. P. D. $14^{0},42'$ ∴ diff.$=3''{,}6$ of arc |
| 220 . II | 57 Andromed. $\gamma$ | 9=51.64 | 2=51,92 | 53 51,70 | 3,630 | + ,012 | |
| 181 . III | 37 Arietis | 3=21,75 | 3=21,89 | 54 21,82 | 3.369 | + ,015 | |
| 201 . III | $b$ Andromed. | 1=58,23 | 3=58,14 | 2 2 58,16 | 3,717 | + ,009 | |
| 205 . III | 262 ——— | 2=16,29 | 2=16,49 | 4 16,39 | 3,835 | — ,024 | |
| 209 . III | Mach. Elect. $\beta$ | 1=40,97 | 1=41,26 | 5 41,11 | 2,641 | + ,005 | |
| 211 . III | 62 Arietis | 1=23,59 | 1=23,57 | 6 23.58 | 3,395 | + ,020 | |
| 217 . III | 41 Persei | ——— | 1=46,09 | 7 46,09 | 4,141 | + ,009 | |
| 224 . III | 265 Andromed. | 1= 8,99 | 1= 9.50 | 10 9,25 | 3.908 | + ,018 | |
| 243 . II | 68 Ceti $o$ | 6= 4,18 | 6= 4,26 | 11 4,22 | 3,021 | + ,012 | |
| 249 . II | 24 Arietis $\xi^1$ | 5= 2,17 | 1= 2,27 | 16 2,19 | 3,197 | + ,008 | |
| 253 . II | 12 Trianguli $c$ | 5=34.38 | 3=34,30 | 18 34,35 | 3,487 | + ,005 | |
| 238 . III | 46 Messoris | 4=13,35 | 4=14,24 | 19 13.80 | 5,236 | + ,027 | N. P. D. $19^{0},27'$ |
| 256 . II | Eridani $\kappa$ | 8=58,36 | 3=58,43 | 20 58.38 | 2.199 | ——— | |
| 248 . III | Ceti | ——— | 4=16 53 | 23 16,53 | 2,846 | — ,001 | |
| 251 . III | 46 Trianguli | 4=50,77 | 3=51,94 | 25 51,94 | 3,604 | + ,034 | A wrong star observed in 1835. |
| 268 . II | Ceti | 5= 5,87 | 5= 5,97 | 27 5,92 | 3.153 | + ,130 | |
| 253 . III | $d^1$ ——— | 2= 7,08 | 1= 6,86 | 27 7,01 | 3,009 | — ,005 | |
| 256 . III | 418 ——— | ——— | 4=18.74 | 29 18,74 | 3,167 | + ,021 | |
| 279 . II | ——— | 4=37,66 | 5=37.07 | 31 37,40 | 3.145 | — ,010 | the mean is erroneously stated to be 37,83s. in Vol. II. |
| 283 . II | 34 Arietis $u$ | 5= 8.14 | 3= 8,07 | 33 8,12 | 3,357 | + ,023 | |
| 295 . II | Hydrae | ——— | 4= 6,06 | 37 6,06 | 0,868 | ——— | differs 12s. from A. S. C. |
| 306 . II | Fornacis $\beta$ | 5=13.72 | 1=13,77 | 42 13,73 | 2,502 | + ,009 | |
| 286 . III | 98 Persei | 3=13,60 | 3=13,27 | 49 13,43 | 4.208 | + ,005 | |
| 324 . II | Horologii $\beta$ | ——— | ——— | 51 ——— | 1,222 | ——— | *Not now visible!* |
| 325 . II | Eridani $0^1$ | 5= 2,76 | 2= 2,47 | 52 2,68 | 2,277 | — ,008 | |
| 337 . II | Fornacis | ——— | ——— | 55 ——— | 2.663 | ——— | *Not now visible!* |
| 340 . II | Persei | 6=16,45 | 3=16,40 | 57 16,43 | 4,138 | + ,146 | |
| 346 . II | Arietis | 5=43,73 | 4=43,80 | 3 0 43,76 | 3.535 | ——— | differs 4,28s. from A. S. C. |
| 356 . II | 14 Eridani | 5=39.45 | 3=39,20 | 8 39,36 | 2,899 | + ,019 | |
| 317 . III | 140 Persei | 1=28,96 | 4=29,20 | 10 29,15 | 3,981 | + ,002 | |
| 318 . III | 63 Cass. Mess. | 3=30,92 | 3=31,33 | 10 31.12 | 5,095 | + ,018 | |
| 321 . III | 142 Persei | 3=20,25 | 3=38,38 | 11 38.38 | 4,195 | + ,018 | A wrong star observed in 1835. |
| 329 . III | ——— | 3= 1,05 | 2= 1,36 | 20 1.17 | 4,179 | + ,010 | |
| 331 . III | 15 Tauri | 3=27,48 | 3=27,95 | 20 27,71 | 3,366 | + ,006 | Former observations discordant: 27,8s. is probably nearer the truth than the mean. |
| 332 . III | 16 ——— | 6=30,90 | 2=31,09 | 20 30,97 | 3,116 | + ,005 | |
| 333 . III | Persei | 3=35,11 | 4=35,12 | 20 35.11 | 4,187 | + ,004 | |
| 337 . III | 149 Eridani | 3= 4,93 | 3= 5,27 | 22 5,10 | 2,056 | — ,001 | |
| 341 . III | Persei | 4=21,19 | 3=20.97 | 27 21,10 | 3,690 | — ,003 | |
| 399 . II | 41 ——— $\nu$ | 9= 4.68 | 3= 4,77 | 34 4.70 | 4,035 | + ,019 | |
| 358 . III | Fornacis | 3=43,89 | 3=43,80 | 35 43,84 | 2,381 | — ,002 | |

| Reference. No. Vol. | Names. | Mean A. R. Jan. 1, 1836.—from former obs. | Mean A. R. Jan. 1, 1836.—from present obs. | Concluded Mean A. R. Jan. 1, 1836. | Annual Precesn. | Annual P. M. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | s. | s. | h. m. s. | s. | s. | |
| 363 of III | 27 Psalt. Georg. | —— | 4=33,75 | 3 36 33,75 | +3,053 | + ,007 | |
| 365 . III | 12 Pleiadum | —— | 4=37,00 | 37 37,00 | 3,543 | + ,017 | |
| 369 . III | 118 Tauri | 4= | 2=28,75 | 39 28,75 | 3,541 | + ,016 | A wrong star observed in 1835. |
| 373 . III | 132 —— | 1=14,19 | 2=14,47 | 40 14,38 | 3,504 | + ,011 | |
| 424 . II | 28 Eridani | 5=36,75 | 8=36,82 | 40 36,80 | 2,571 | — ,003 | |
| 374 . III | Fornacis | —— | 2=42,07 | 40 42,07 | 2,436 | + ,006 | |
| 378 . III | 206 Eridani | —— | 2=39,60 | 41 39,60 | 2,251 | + ,002 | |
| 380 . III | H Camelop. | —— | 3= 1,35 | 43 1,35 | 5,200 | + ,015 | |
| 445 . II | 35 Eridani | 6=13,76 | 1=13,49 | 53 13,72 | 3,028 | + ,001 | |
| 403 . III | 171 Tauri | *3= 4,41 | 3= 4,38 | 55 4,40 | 3,224 | + ,022 | The place of this star as given in Vol. III. is erroneous to the amount of a years precession. |
| 455 . II | Reticuli $\gamma$ | 8=32,79 | 3=32,82 | 58 2,80 | 0,841 | —— | |
| 454 . II | Tauri | 6=36,42 | 1=36,45 | 58 36,43 | 3,418 | + ,007 | |
| 421 . III | 205 —— | 2=45,54 | 1=45,15 | 4 6 45,41 | 3,188 | — ,005 | |
| 432 . III | $o^1$ Eridani | —— | 3=51,35 | 12 51,35 | 2,501 | + ,008 | |
| 433 . III | Z —— | 1= 4,47 | 3= 4,44 | 13 4,45 | 3,058 | — ,002 | Piazzi properly places this star in the constellation Taurus. |
| 436 . III | 220 Persei | *3= 0,43 | 4= 0,44 | 14 0,44 | 3,858 | + ,019 | |
| 500 . II | Reticuli $\theta$ | 4=51,29 | 3=51,65 | 15 51,45 | 0,643 | —— | |
| 503 . II | 71 Tauri | 4= 0,62 | 3= 0,54 | 17 0,59 | 3,395 | + ,025 | |
| 508 . II | 75 —— | 5= 4,29 | 1= 4,41 | 19 4,31 | 3,414 | + ,001 | |
| 445 . III | 265 —— | 1= — | 4=11,00 | 21 11,00 | 3,388 | + ,013 | |
| 447 . III | 269 —— | —— | 4=24,32 | 21 24,32 | 3,412 | + ,020 | |
| 529 . II | 88 —— $d$ | 4=38,88 | 1=39,08 | 26 38,92 | 3,280 | + ,007 | |
| 463 . III | 335 Eridani | —— | 3=29,77 | 27 29,77 | 2,393 | — ,001 | |
| 465 . III | Scep. Brand. | 3=58,03 | 1=57,56 | 28 57,92 | 2,877 | — ,005 | |
| 467 . III | 40 Camelop. | —— | 3=39,67 | 30 39,67 | 6,502 | + ,036 | |
| 555 . II | 96 Tauri K | 5=21,53 | 2=21,66 | 40 21,56 | 3,419 | + ,014 | |
| 499 . III | 52 Camelop. | 3= 4,30 | 4= 4,75 | 44 4,56 | 7,429 | — ,018 | |
| 577 . II | 10 —— $d^1$ | 6=51,51 | 2=52,29 | 48 51,71 | 5,286 | + ,005 | |
| 515 . III | Eridani | —— | 3=40,41 | 51 40,41 | 2,829 | + ,003 | |
| 518 . III | 61 Camelop. | 1=57,58 | 3=57,83 | 51 57,77 | 5,176 | + ,010 | |
| 523 . III | $e$ Aurigæ | —— | 3=31,61 | 54 31,61 | 5,504 | + ,014 | |
| 530 . III | $b$ —— | 4=30,87 | 2=31,08 | 58 30,94 | 4,439 | + ,014 | |
| 610 . II | Doradus $\zeta$ | 7=42,53 | 4=42,68 | 5 2 42,58 | 1,021 | —— | |
| 622 . II | Columbæ | 5=49,99 | 2=49,70 | 8 49,91 | 2,400 | + ,006 | |
| 554 . III | 2 —— | 1=54,00 | 3=53,87 | 9 53,90 | 2,151 | + ,003 | |
| 626 . II | Leporis | 5= 8,50 | 3= 8,46 | 10 8,49 | 2,750 | —— | |
| 635 . II | 22 Orionis $o$ | —— | 6=23,68 | 13 23,68 | 3,055 | + ,016 | |
| 641 . II | Eridani | 6= 2,78 | 3= 2,62 | 15 2,73 | 2,459 | + ,011 | |
| 577 . III | 367 Tauri | 4=49,63 | 1=49,34 | 20 49,57 | 3,609 | + ,006 | The place now observed agrees with Piazzi, but differs 8,21s. from A. S. C. |
| 661 . II | 25 Aurigæ $\chi^1$ | 12= 3,61 | 3= 3,67 | 22 3,62 | 2,941 | + ,011 | |
| 594 . III | 27 Columbæ | —— | 3=56,73 | 26 56,73 | 1,697 | + ,006 | |
| 679 . II | 41 Orionis $\theta^1$ | —— | 6=13,28 | 27 13,28 | 2,941 | ,000 | |
| 597 . III | 84 Camelop. | 4= 3,72 | 1= 4,16 | 29 3,81 | 5,495 | — ,014 | The place now observed agrees with Piazzi, but differs nearly 5s. from the A. S. C. |
| 691 . II | 47 Orionis $\omega$ | 6=31,88 | 3=31,75 | 30 31,84 | 3,161 | + ,010 | |
| 609 . III | 393 Tauri | 1=15,34 | 3=15,11 | 33 15,17 | 3,524 | + ,014 | |
| 626 . III | Columbæ | 1= 5,63 | 3= 5,51 | 38 5,54 | 1,972 | + ,007 | |
| 743 . II | Aurigæ | 5=42,21 | 2=42,11 | 50 42,18 | 3,765 | + ,006 | |
| 658 . III | $n$ Camelop. | —— | 3=29,06 | 51 29,06 | 4,752 | + ,005 | |
| 677 . III | Columbæ | 1=45,72 | 4=45,39 | 59 45,45 | 1,730 | — ,001 | |
| 447 . IV | Geminor. *seq.* | —— | 1= 7,54 | 6 4 7,54 | 3,663 | — ,001 | This observation was omitted. |

* See errata.

| Reference. No. Vol. | Names. | Mean A. R. Jan. 1, 1836.—from former obs. | Mean A. R. Jan. 1, 1836.—from present obs. | Concluded Mean A. R. Jan. 1, 1836. | Annual Precesn. | Annual P. M. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | s. | s. | h. m. s. | s. | s. | |
| 785 of II | Orionis *l* | *5= 4,65 | 4= 4,15 | 6 8 4,43 | +3,303 | + ,010 | The results in each year agree very well *inter se* :—this star must be re-examined. |
| 452 . IV | Monocer. | —— | 3=18,65 | 8 18,65 | 2,767 | + ,008 | These observations were omitted. |
| 703 . III | 25 Monocer. | 2=60,70 | 3=52,04 | 9 52,04 | 2,817 | — ,017 | In 1835 a wrong star appears to have been observed;—on the present occasion the small star mention by P. was observed; preceding 25 min. 15,05*s*. |
| 710 . III | 31 Geminor. | 1=33,46 | 3=33,44 | 11 33,44 | 3,586 | + ,007 | |
| 716 . III | 9 Lyncis | 4=29,06 | 2=29,52 | 12 29,21 | 5,243 | — ,001 | |
| 718 . III | Canis Maj. | *1=55,90 | 2=56,17 | 14 56,08 | 2,300 | + ,014 | The result in Vol. III belongs to Piazzi, No. 81. |
| 793 . II | Monocer. | 6=39,90 | 1=39,73 | 14 39,88 | 3,158 | + ,005 | |
| —— | Geminor. | 3=59,24 | 6=59,20 | 17 59,21 | 3,576 | + ,012 | Omitted in Vol. III. |
| 799 . II | 15 —— | 5= 0,07 | 6= 0,12 | 18 0,10 | 3,576 | + ,009 | |
| 728 . III | 11 Navis | 4=19,94 | 2=19,95 | 18 19,94 | 2,078 | + ,002 | |
| 805 . II | 17 Geminor. | * —— | 2=25,28 | 19 25,28 | 3,588 | —— | This Star is now of the 9,10 mag. |
| 739 . III | 120 Camelop. | 3=26,42 | 3=23,56 | 21 25,04 | 30,934 | + ,066 | N. P. D. = 2°,44′ ∴ diff. = 2″,04 of arc. |
| 758 . III | 50 Geminor. | —— | 4=32,33 | 26 32,33 | 3,474 | + ,007 | |
| 760 . III | 26 Navis | —— | 3=44,05 | 26 44,05 | 2,047 | + ,002 | |
| 770 . III | 6*v*[1] Canis *præc.* | 3=12,14 | 3=12,26 | 29 12,20 | 2,624 | + ,005 | |
| 772 . III | Lyncis | 1=20,05 | 5=20,63 | 30 20,54 | 5,326 | + ,007 | |
| 774 . III | 22 —— | —— | 3=27,78 | 30 27,78 | 5,114 | + ,019 | |
| 783 . III | Camelop. | —— | 3=52,60 | 32 52,60 | 6,291 | + ,012 | |
| 835 . II | 43 —— *q* | 6=58,92 | 6=59,29 | 35 59,10 | 6,522 | — ,019 | This — P. M. partly accounts for the difference (nearly 2″) from the A. S. C. |
| 794 . III | Monocer. | 1=51,29 | 3=51,47 | 37 51,43 | 3,254 | + ,013 | |
| 795 . III | 49 Navis | 1=54,82 | 2=55,08 | 37 54,99 | 1,999 | + ,039 | |
| 840 . II | 18 Monocer. *h* | 6=18,56 | 1=18,28 | 39 18,52 | 3,128 | + ,005 | |
| 807 . III | 29 Lyncis | 4=10,95 | 3=11,24 | 43 11,07 | 5,148 | + ,014 | |
| 848 . II | 13 Can. Maj. $\kappa^2$ | 19=43,04 | 1=43,04 | 43 43,04 | 2,238 | + ,004 | |
| 855 . II | Geminor. | 6=44,21 | 3=44,17 | 46 44,20 | 3,492 | + ,010 | |
| 814 . III | Lyncis | 3= 6,34 | 1= 6,69 | 47 6,43 | 5,143 | + ,009 | |
| 827 . III | 131 Camelop. | *3=54,07 | 3=56,23 | 53 55,15 | 11,802 | — ,036 | N. P. D. = 8°,27′ |
| 832 . III | Monocer. | —— | 4=18,50 | 54 18,50 | 2,977 | + ,013 | |
| 888 . II | 51 Geminor. | 12=56,99 | 1=57,25 | 7 3 57,02 | 3,447 | + ,007 | |
| 901 . II | Piscis. Vol. $\gamma$ | 6= 6,92 | 4= 6,48 | 10 6,74 | −0,475 | —— | |
| 881 . III | Lyncis | 1=48,03 | 2=48,31 | 11 48,22 | +5,013 | + ,003 | |
| 891 . III | 144 Geminor. | —— | 3=20,90 | 14 20,90 | 3,740 | + ,011 | |
| 910 . III | Navis | 1= 9,63 | 3= 9,49 | 22 9,52 | 2,380 | + ,014 | |
| 925 . III | 153 Camelop. | 5=47,51 | 3=49,02 | 28 48,08 | 10,586 | + ,198 | |
| 936 . III | —— | —— | 3=33,56 | 32 33,56 | 10,237 | + ,019 | |
| 954 . III | Off. Typ. | —— | 3=48,67 | 40 48,67 | 2,815 | + ,015 | |
| 966 . III | —— | 1=51,54 | 3=51,53 | 44 51,53 | 2,781 | + ,011 | |
| 974 . II | 11 Argus. | 6=48,72 | 3=48,74 | 49 48,73 | 2,578 | + ,003 | |
| 980 . III | Camelop. | 4=43,11 | 3=43,38 | 51 43,23 | 4,972 | + ,005 | |
| 982 . II | A rgus. *x* | 8=36,26 | 2=36,26 | 52 36,26 | 1,530 | —— | |
| 988 . II | 55 Camelop. | 6=23,61 | 3=23,77 | 56 23,67 | 6,107 | —— | |
| 993 . III | Navis | 1=11,31 | 2=11,51 | 57 11,41 | 2,659 | + ,015 | |
| 997 . II | Cancri | —— | 6=19,62 | 8 2 19,62 | 3,278 | + ,004 | |
| 1024 . II | —— $\phi^2$ | —— | 6=51,22 | 16 51,22 | 3,643 | + ,001 | |
| 1029 . II | Argus | 6=59,24 | 2=59,25 | 17 59,24 | 2,589 | + ,026 | |
| 1038 . II | 34 Cancri | 6=44,34 | 4=43,86 | 23 44,15 | 3,271 | + ,014 | |
| 1041 . II | Monocer. | 5= 8,94 | 2= 9,07 | 24 8,98 | 2,696 | + ,022 | |
| 1049 . II | Cancri | 5=25,79 | 2=25,83 | 30 25,80 | 3,457 | + ,016 | |
| 1057 . III | 102 Cancri | 4=56,91 | 1=56,76 | 30 56,88 | 3,457 | + ,020 | |
| 1055 . II | —— | 9= 2,12 | 1= 1,95 | 31 2,10 | 3,456 | + ,003 | |

* See errata.

| Reference, No. Vol. | Names. | Mean A. R. Jan. 1, 1836.—from former obs. | Mean A. R. Jan. 1, 1836.—from present obs. | Concluded Mean A. R. Jan, 1, 1836. | Annual Precesn. | Annual P. M. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | s. | s. | h. m. s. | s. | s. | |
| 1067 of III | Navis *d* | 1=32,08 | 2=32,78 | 8 38 | +2,139 | | The Paramatta obs. differ 3s. from this result. |
| 1068 . III | 133 Cancri | 3=38,48 | 2=38,98 | 39 38,68 | 3,307 | + ,020 | |
| 1105 . II | Argus. *c* | 20=30,25 | 4=29,69 | 58 30,16 | 2,068 | ——— | The Paramatta observations with the Transit, differ 1,32s from this result. |
| 1109 . III | 209 Cancri | 3=51,10 | 3=51,39 | 9 0 51,24 | 3,272 | + ,004 | |
| 1112 . II | Pixid Naut. | 6=50,94 | 2=51,38 | 0 51,05 | 1,498 | + ,012 | |
| 1118 . III | Hydræ | 5=51,03 | 1=51,02 | 6 51,03 | 2,935 | + ,008 | |
| 1121 . III | Navis $h^1$ | 8=25,11 | 2=25,20 | 8 25,13 | 2,384 | — ,008 | |
| 1127 . II | 24 Hydræ | 5=38,94 | 1=39,51 | 8 39,03 | 2,940 | — ,009 | |
| 1132 . II | Leonis | 5=37,50 | 4=37,62 | 11 37,55 | 3,523 | ——— | |
| 1148 . II | Ursæ Maj. *d* | 10=50,55 | 3=50,88 | 19 50,63 | 5,500 | — ,021 | N. P. D. 19°,26′. |
| 1155 . II | Leonis *h* | 6= 9,79 | 3= 9,87 | 23 9,82 | 3,224 | + ,022 | |
| 1162 . III | 88 Ursæ Maj. | 4=40,50 | 3=41,07 | 27 40,74 | 5,761 | — ,016 | |
| 1185 . III | 66 Leonis | ——— | 3=30,97 | 38 30,97 | 3,370 | + ,022 | |
| 1191 . II | 9 Sextantis | 6=32,30 | 2=32,57 | 45 32,37 | 3,143 | + ,011 | |
| 1226 . II | Autl. Pneum. | 6=37,14 | 3=37,33 | 10 10 37,20 | 2,739 | + ,013 | |
| 1233 . II | Leonis *z* | ——— | 1=25,38 | 14 25,38 | 3,145 | + ,002 | |
| 1256 . III | Leonis | ——— | 3=56,91 | 16 56,91 | 3,166 | + ,011 | |
| 1260 . III | Sextantis | ——— | 3=12,77 | 19 12,77 | 3,067 | + ,012 | |
| 1246 . II | 28 ——— *k* | 5= 8,25 | 5= 8,94 | 21 8,60 | 3,050 | — ,004 | |
| 1268 . III | Ursæ Maj. | 3=24,11 | 1=23,81 | 23 24,04 | 3,828 | + ,009 | |
| 1270 . II | 34 Sextantis | 7= 9,45 | 3= 9,39 | 34 9,43 | 3,106 | + ,033 | |
| 1275 . II | 36 ——— | 4=42,77 | 3=42,54 | 36 42,67 | 3,096 | + ,015 | |
| 1276 . II | Argus. | 18= 7,49 | 2= 7,56 | 37 7,50 | 2,117 | ——— | |
| 734 . IV | Sextantis | 5= 4,67 | 2= 4,97 | 42 4,76 | 3,006 | + ,032 | These observations were omitted in the Catalogue. |
| 1311 . III | Hydræ | ——— | 3=28,71 | 46 28,71 | 2,920 | — ,007 | |
| 1294 . II | Argus. *u* | 11=51,61 | 4=51,48 | 46 51,58 | 2,396 | ——— | |
| 1328 . III | Leonis $p^1$ | 3=13,16 | 2=13,20 | 55 13,18 | 3,073 | + ,009 | |
| 1329 . III | 216 Ursæ Maj. | 3=22,96 | 1=22,98 | 55 22,96 | 3,369 | + ,014 | |
| 748 . IV | Leonis | 1= 4,71 | 4= 4,70 | 58 4,70 | 3,118 | + ,008 | These observations were omitted in the Catalogue. |
| 1341 . III | Ursæ Maj. | 3=10,40 | 2=10,55 | 11 0 10,46 | 3,558 | + ,006 | |
| 1344 . III | 223 Ursæ Maj. | 3=57,36 | 1=57,64 | 1 57,43 | 3,447 | + ,010 | |
| 1350 . III | ——— | 1= 4,84 | 3= 4,90 | 5 4,89 | 3,500 | + ,010 | |
| 1353 . III | 322 Leonis | 2=22,26 | 1=22,20 | 7 22,24 | 3,141 | + ,029 | |
| 1368 . III | Hydræ $X^1$ | 1=17,51 | 2=17,27 | 15 17,35 | 2,886 | + ,011 | |
| 1370 . III | 370 Leonis | 3=43,89 | 4=43,67 | 16 43,76 | 3,097 | + ,006 | |
| 1376 . III | Hyd. & Crat. | 1=15,20 | 2=14,88 | 19 14,99 | 3,020 | + ,016 | |
| 1353 . II | ——— | 7=36,20 | 2=36,14 | 23 36,18 | 3,047 | + ,003 | |
| 1354 . II | 17 Crateris | 6= 9,45 | 2= 9,25 | 24 9,40 | 2,955 | — ,014 | |
| 1355 . II | ——— | 5=27,97 | 3=27,76 | 24 27,89 | 3,043 | + ,016 | |
| 1411 . III | Hydræ *o* | 1= 4,55 | 3= 4,86 | 32 4,78 | 2,960 | — ,006 | |
| 1416 . III | ——— V | 3=33,75 | 1=33,75 | 33 33,75 | 2,974 | + ,013 | |
| 1427 . III | Leonis | 1=31,72 | 3=32,14 | 40 32,03 | 3,099 | — ,004 | |
| 1388 . II | Virginis | 6=38,31 | 4=38,25 | 52 38,29 | 3,067 | + ,007 | |
| 1454 . III | Corvi | 1=36,91 | 3=36,61 | 11 54 36,69 | 3,056 | + ,007 | |
| 1400 . II | 3 ——— | 5=38,34 | 4=38,12 | 12 2 38,25 | 3,074 | + ,014 | |
| 1406 . II | Crucis *δ* | 13=29,50 | 4=28,90 | 6 29,37 | 3,125 | ——— | Differs 2s. + from A. S. C. |
| 1493 . III | Virginis *g* | 3=45,06 | 2=45,60 | 9 45,28 | 3,071 | + ,006 | |
| 1496 . III | 18 Canum Ven. | ——— | 1=14,56 | 10 14,56 | 3,028 | + ,006 | |
| 1412 . II | 13 Virginis *n* | 14=16,05 | 4=16,19 | 10 16,08 | 3,068 | + ,011 | |
| 1500 . III | 45 Comæ Ber. | 1=16,52 | 3=16,26 | 11 16,33 | 3,031 | ,000 | |

| Reference. No. | Vol. | Names. | Mean A. R. Jan. 1, 1836.—from former obs. | Mean A. R. Jan. 1, 1836.—from present obs. | Concluded Mean A. R. Jan. 1, 1836 | Annual Precesn. | Annual P. M. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | s. | s. | h. m. s. | s. | s. | |
| 1501 of | III | 19 Draconis. | —— | 3=25,96 | 12 11 25,96 | +2,796 | + ,069 | |
| 1503 . | III | 26 Corvi. | 1=42,05 | 3=42,06 | 11 42,06 | 3,095 | — ,007 | |
| 1516 . | III | Comæ Ber. | —— | 3=49,16 | 15 49,16 | 3,021 | + ,011 | |
| 1445 . | II | 20 Virginis. | 5=44,86 | 4=44,87 | 24 44,86 | 3,040 | + ,006 | |
| 1540 . | III | Corvi. | 2=29,34 | 3=29,27 | 25 29,30 | 3,130 | + ,028 | |
| 1544 . | III | Comæ Ber. | 1=35,20 | 3=35,78 | 26 35,64 | 2,995 | + ,007 | |
| 1460 . | II | 26 Virginis. $\chi$ | 6=47,53 | 4=47,35 | 30 47,46 | 3,090 | + ,011 | |
| 1562 . | III | 311 Virginis. | 1=10,19 | 3=10,23 | 38 10,22 | 3,028 | + ,013 | |
| 1577 . | III | Comæ Ber. | 3= 5,97 | 1= 6,27 | 43 6,04 | 2,977 | + ,011 | |
| 828 . | IV | —— *pre.* | 2=47,65 | 3=47,82 | 43 47,71 | 2,975 | + ,038 | These were omitted in the Catalogue. |
| 1578 . | III | —— | 3=47,69 | 1=48,12 | 43 47,79 | 2,975 | + ,017 | |
| 1598 . | III | Centauri. | 3= 4,52 | 3= 4,24 | 52 4,38 | 3,262 | — ,004 | |
| 1604 . | III | —— $q$ | 1=45,19 | 4=44,90 | 54 44,96 | 3,277 | + ,010 | |
| 1503 . | II | 14 Canum Ven. $f$ | —— | 3= 3,98 | 58 3,98 | 2,820 | + ,011 | |
| 1615 . | III | 456 Virginis. | 1=16,08 | 3=16,14 | 13 2 16,12 | 3,126 | — ,003 | |
| 1619 . | III | Centauri. $m$ | 1=56,37 | 3=56,03 | 2 56,12 | 3,341 | — .018 | |
| 1639 . | III | 205 Comæ Ber. | 3=15,86 | 1=15,77 | 12 15,84 | 2,928 | + ,015 | |
| 1649 . | III | Ursæ Maj. | 3=18,96 | 2=18,83 | 18 18,93 | 2,410 | + ,013 | |
| 1659 . | III | —— $y$ | 3=25,40 | 1=25,28 | 22 25,37 | 2,227 | + ,002 | |
| 1660 . | III | Virginis. | *3=22,83 | 2=22,90 | 23 22,86 | 3,080 | — ,043 | |
| 1668 . | III | 7 Bootis. | —— | 3=57,60 | 26 57,60 | 2,951 | + ,009 | |
| 1694 . | III | Virginis. | 1=11,23 | 3=11,17 | 37 11,19 | 3,169 | — ,004 | |
| 1565 . | II | 86 —— $o$ | 6=12,68 | 1=12,94 | 37 12,72 | 3,180 | + ,010 | |
| 1568 . | II | 3 Bootis. | —— | 3= 6,29 | 39 6,29 | 2,789 | + ,005 | |
| 1570 . | II | Centauri. $\nu$ | —— | 2=42,19 | 39 42,19 | 3,553 | + ,005 | |
| 1728 . | III | Bootis. | 3=45,13 | 2=45,05 | 50 45,10 | 2,897 | + ,004 | |
| 1594 . | II | Virginis. | 5=26,72 | 1=26,48 | 51 26,68 | 3,148 | + ,012 | |
| 1608 . | II | 96 —— $y$ | 7=16,99 | 2=16,86 | 14 0 16,95 | 3,180 | + ,010 | |
| 1753 . | III | —— | 2=37,15 | 3=37,30 | 1 37,24 | 2,936 | + ,010 | |
| 1759 . | III | 642 —— | 3=17,73 | 3=17,39 | 3 17,51 | 3,131 | + ,013 | |
| 936 . | IV | Bootis. | 3=40,28 | 3=40,33 | 4 40,30 | 2,961 | + ,007 | These observations were omitted in the Catalogue. |
| 1768 . | III | —— $\kappa$ | 3=36,19 | 1=36,32 | 7 36,22 | 2,146 | + ,028 | |
| 1627 . | II | 18 —— $t$ | —— | 4=20,16 | 11 20,16 | 2,891 | + ,019 | |
| 1630 . | II | 7 Hydræ. | 6=40,13 | 1=39,97 | 13 40,11 | 3,442 | — ,002 | |
| 1633 . | II | Solitarii. | —— | 4=28,47 | 15 28,47 | 3,399 | + ,009 | |
| 1795 . | III | Bootis. | —— | 2=34,29 | 18 34,29 | 2,792 | + ,009 | |
| 1801 . | III | Hydræ. | —— | 2= 0,18 | 21 0,18 | 3,489 | — ,018 | |
| 954 . | IV | Virginis. | 4= 2,10 | 1= 1,84 | 25 2,05 | 3,153 | + ,009 | This observation was omitted in the Catalogue. |
| 1822 . | III | —— | 3=36,06 | 2=35,80 | 28 35,96 | 3,113 | — ,001 | |
| 963 . | IV | Libræ. | 2=28,51 | 2=28,46 | 33 28,48 | 3,236 | — ,004 | These observations were omitted in the Catalogue. |
| 1671 . | II | 11 Hydræ. | —— | 4=51,50 | 37 51,50 | 3,462 | + ,014 | |
| 1673 . | II | Libæ. | —— | 4=55.37 | 37 55,37 | 3,387 | + ,011 | |
| 1676 . | II | 13 Hydræ. | —— | 4=23,19 | 38 23,19 | 3,481 | + ,008 | |
| 1854 . | III | Libræ. | 2=25,49 | 1=25,61 | 45 25,53 | 3,064 | + ,007 | |
| 1690 . | II | —— | 5=54,30 | 5=54,55 | 47 54,42 | 3,404 | + ,079 | Differs 3s. from A. S. C. See Piazzi's Note.— |
| 1696 . | II | 1 Serpentis. | —— | 4= 9,15 | 49 9,15 | 3,060 | + ,011 | |
| 1698 . | II | Bootis. | —— | 3=32,96 | 49 32,96 | 2,792 | + ,006 | |
| 1702 . | II | Libræ. | 6=25,37 | 2=25,37 | 53 25,37 | 3,179 | + ,005 | |
| 1707 . | II | 41 Bootis. $\omega$ | —— | 4=55,57 | 54 55,57 | 2,642 | + ,016 | |
| 1709 . | II | Libræ. | —— | 3=42,12 | 56 42,12 | 3,456 | + ,017 | |

* See errata.

| Reference. No. | Vol. | Names. | | Mean A. R. Jan. 1, 1836.—from former obs. | Mean A. R. Jan. 1, 1836.—from present obs. | Concluded Mean A. R. Jan. 1, 1836. | Annual Precesn. | Annual P. M. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | s. | s. | h. m. s. | s. | s. | |
| 1879 of | III | 33 Ursæ Min. | | —— | 2=12,87 | 14 56 12,87 | —0,537 | + ,019 | |
| 1885 . | III | —— —— | | 2= 4,36 | 3= 5,13 | 58 4,82 | —0,567 | + ,012 | N. P. D. 14°,28′. |
| 1718 . | II | Lupi | $\kappa^1$ | —— | 5=34,63 | 15 0 34,63 | +4,121 | —— | $\pi^2$ follows at 0*m*. 36,16*s*. |
| 1719 . | II | 46 Bootis | $b$ | —— | 3=19,10 | 1 19,10 | 2,585 | + ,009 | |
| 1720 . | II | —— | | —— | 3=26,84 | 1 26,84 | 2,610 | + ,004 | |
| 1898 . | III | 97 Libræ | | 3=12,84 | 3=12,81 | 5 12,82 | 3,378 | — ,001 | |
| 1727 . | II | 3 Serpentis | | —— | 4= 2,57 | 7 2,57 | 2,973 | + ,004 | |
| 1736 . | II | 5 —— | | —— | 4=56,95 | 10 56,95 | 3,026 | + ,032 | |
| 1737 . | II | Bootis | | —— | 4= 3,45 | 11 3,45 | 2,685 | + ,003 | |
| 1743 . | II | 6 Serpentis | | —— | 4=41,54 | 12 41,54 | 3,045 | + ,024 | |
| 1906 . | III | Cor. Bor. | $o$ | 3=21,68 | 1=21,65 | 13 21,67 | 2,487 | + ,003 | |
| 1744 . | II | 30 Libræ | $o^2$ | —— | 2=53,90 | 13 53,90 | 3,327 | + ,008 | |
| 1001 . | IV | Cor. Bor. | | 2=32,82 | 1=32,58 | 13 32,74 | 2,484 | + ,001 | This observation was omitted in the Catalogue. |
| 1752 . | II | Libræ | | —— | 3=55,67 | 20 55,67 | 3,375 | —— | |
| 1757 . | II | Triang. Aust. | $\varepsilon$ | —— | 4=49,09 | 21 49,09 | 5,349 | —— | |
| 1763 . | II | 37 Libræ | $f^1$ | 7=13,30 | 1=13,48 | 25 13,32 | 3,242 | + ,023 | |
| 1768 . | II | 39 —— | | —— | 3= 5,22 | 27 5,22 | 3,615 | + ,006 | |
| 1769 . | II | Scorpii | | —— | 2=39,18 | 27 39,18 | 3,574 | + ,010 | |
| 1771 . | II | 15 Serpentis | | —— | 2= 6,90 | 28 6,90 | 2,721 | + ,003 | |
| 1772 . | II | 14 —— | $A^1$ | —— | 2= 9.37 | 28 9,37 | 3,068 | + ,006 | |
| 1773 . | II | Libræ | | —— | 2=18,69 | 28 18,69 | 3,619 | + ,008 | |
| 1776 . | II | 18 Serpentis | $\tau^2$ | —— | 2=56,04 | 28 56,04 | 2,752 | + ,009 | |
| 1778 . | II | 41 Libræ | $\psi$ | —— | 3=29,14 | 29 29,14 | 3,427 | + ,021 | |
| 1779 . | II | Lupi | $g$ | —— | 1=54,55 | 29 54,55 | 4,093 | + ,071 | |
| 1790 . | II | 8 Cor. Bor. | $\gamma$ | —— | 4=51,45 | 35 51,45 | 2,522 | + ,010 | |
| 1792 . | II | 15 Ursæ Min. | $\theta$ | —— | 4=26,03 | 36 26,03 | —1,977 | — ,034 | |
| 1804 . | II | 36 Serpentis | $b$ | —— | 4=43,51 | 42 43,51 | +3,118 | + ,003 | |
| 1805 . | II | 10 Cor. Bor. | $\delta$ | —— | 4=43,11 | 42 43,11 | 2,516 | + ,002 | |
| 1808 . | II | Scorpii | $f^1$ | —— | 4= 8,10 | 44 8,10 | 3.561 | + ,033 | |
| 1965 . | III | Lupi | $\xi$ | 3=25,60 | 2=25,51 | 46 25,56 | 3,806 | + ,006 | |
| 1032 . | IV | —— | $\xi^2$ | —— | 2=26,17 | 46 26,17 | 3,807 | + ,020 | These were omitted in the Catalogue. |
| 1966 . | III | 100 Serpentis | | 3=45,22 | 4=45,14 | 46 45,17 | 2,890 | + ,012 | |
| 1817 . | II | Serpentis | | —— | 4=21,13 | 47 21,13 | 2,643 | — ,002 | |
| 1821 . | II | Lupi | $\eta$ | —— | 4=16,60 | 49 16,60 | 3,943 | + ,001 | On the 11th June 1837 a star was observed at the Transit, following at 0,42*s* |
| 1824 . | II | 16 Ursæ Min. | | —— | 4= 4,50 | 50 4,50 | —2,371 | + ,023 | |
| 1835 . | II | Lupi | $\theta$ | —— | 4=50 77 | 55 50,77 | +3,909 | + ,011 | |
| 1987 . | III | —— | | 3=30,36 | 4=30,52 | 56 30,45 | 3,911 | + ,012 | |
| 1988 . | III | —— | | —— | 2=49,15 | 56 49,15 | 3,911 | + ,008 | |
| 1839 . | II | 6 Herculis | $v$ | —— | 4=41,55 | 57 41,55 | 1,856 | + ,019 | |
| 1838 . | II | 10 Scorpii | $\omega^2$ | —— | 3=48,01 | 57 48,01 | 3,496 | + ,013 | |
| 1992 . | III | Serpentis | | —— | 1= 2,75 | 58 2,75 | 2,857 | + ,003 | |
| 1847 . | II | 7 Herculis | $\kappa^1$ | —— | 2=40,51 | 16 0 40,51 | 2,703 | + ,002 | |
| 1848 . | II | Scorpii | | —— | 2=51,89 | 0 51,89 | 3,709 | — ,001 | |
| 1850 . | II | 13 —— | $c^2$ | —— | 2=13,01 | 2 13,01 | 3,673 | + ,000 | |
| 1853 . | II | 16 —— | | —— | 3=14,68 | 3 14,68 | 3,234 | + ,012 | |
| 1855 . | II | 48 Serpentis | | —— | 3= 3,38 | 4 3,38 | 2,708 | + ,005 | |
| 1856 . | II | 10 Herculis | T | —— | 4=39,14 | 4 39,14 | 2,549 | + ,004 | |
| 2014 . | III | 37 —— | | 3=12,79 | 1=13,17 | 8 12,88 | 2,656 | + ,010 | |
| 1866 . | II | Scorpii | $h$ | —— | 4=11,43 | 9 11,43 | 3,764 | + ,016 | |
| 2018 . | III | 101 —— | | 1=29,02 | 3=29,47 | 10 29,36 | 3,492 | + ,020 | |

| Reference. No. | Vol. | Names. | | Mean A. R. Jan. 1, 1836.—from former obs. | Mean A. R. Jan. 1, 1836.—from present obs. | Concluded Mean A. R. Jan. 1, 1836. | Annual Precesn. | Annual P. M. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | s. | s. | h. m. s. | s. | s. | |
| 1058 of | IV | Scorpii | *præc.* | 1=55,11 | 1=55,16 | 16 10 55,14 | +3,494 | + ,001 | Omitted in the Catalogue. |
| 1059 . | IV | ——— | *seq.* | 1=55,69 | 1=55,49 | 10 55,59 | 3,494 | — ,006 | Do. Do. |
| 1877 . | II | 5 Ophiuchi | *g* | 3=45,65 | 2=46,00 | 15 45,79 | 3,578 | + ,004 | |
| 1881 . | II | 21 Cor. Bor. | $\nu^2$ | —— | 4=18,75 | 16 18,75 | 2,255 | + ,017 | |
| 1072 . | IV | Scorpii | | 4= 2,53 | 3= 2,34 | 20 2,45 | 3,627 | + ,012 | |
| 1888 . | II | 22 Scorpii | *i* | —— | 4=15,41 | 20 15,41 | 3,626 | + ,010 | |
| 2076 . | III | Ursæ Min. | | —— | 4= 1,41 | 35 1,41 | —3,528 | — ,021 | |
| 2078 . | III | Draconis | | —— | 4= 1,18 | 36 1,18 | +0,771 | + ,007 | |
| 2080 . | III | ——— | | —— | 4=22,05 | 37 22,05 | 1,179 | + ,027 | |
| 1086 . | IV | Scorpii | | —— | 1=25,35 | 39 25,35 | 4,183 | — ,010 | This observation was omitted in the Catalogue. |
| 1921 . | II | Scorpii | $\mu^2$ | —— | 3=14,78 | 41 14,78 | 4,040 | + ,005 | |
| 2094 . | III | 151 ——— | | 3=32,42 | 2=32,68 | 42 32,52 | 4,185 | — ,001 | |
| 2097 . | III | 150 Scorpii | *var.* | —— | 2=42,10 | 42 42,10 | 4,187 | + ,026 | |
| 2101 . | III | Draconis | | —— | 4=30,11 | 43 30,11 | 1,217 | + ,035 | |
| 1930 . | II | 51 Herculis | $X^2$ | —— | 2=57,48 | 44 57,48 | 2,480 | + ,005 | |
| 1929 . | II | Aræ | $\zeta$ | —— | 2= 5,16 | 45 5,16 | 4,922 | —— | |
| 1933 . | II | ——— | $\varepsilon$ | —— | 2=32,73 | 46 32,73 | 4,743 | —— | |
| 1938 . | II | 54 Herculis | | —— | 2= 9,84 | 48 9,84 | 2,638 | — ,003 | |
| 1939 . | II | Ophiuchi | | —— | 4=55,99 | 49 55,99 | 3,657 | + ,013 | |
| 2113 . | III | 90 ——— | | —— | 3=59,30 | 49 59,30 | 3,429 | + ,012 | |
| 1942 . | II | Ophiuchi | | 5=12,08 | 1=12,07 | 50 12,08 | 3,481 | + ,016 | |
| 2119 . | III | Herculis | | —— | 6=32,23 | 52 32,23 | 2,818 | + ,010 | |
| 2123 . | III | 103 Ophiuchi | | —— | 4=38,89 | 54 38,89 | 3,677 | + ,002 | |
| 1950 . | II | 19 Draconis | *h* | 3= 8,07 | 2= 8,57 | 55 8,27 | 0,266 | + ,048 | N. P. D. = 24°,36′. |
| 2125 . | III | 122 ——— | | 1=36,84 | 2=37,39 | 55 37,21 | 0,279 | + ,004 | N. P. D. = 24°,43′. |
| 1953 . | II | 32 Ophiuchi | | —— | 4=37,36 | 55 37,36 | 2,740 | + ,013 | |
| 1956 . | II | ——— | | —— | 4= 5,62 | 57 5,62 | 3,083 | + ,011 | |
| 1958 . | II | ——— | | 4=43,99 | 2=44,12 | 58 44,03 | 3,471 | + ,007 | |
| 2139 . | III | Herculis | | —— | 3=28,93 | 17 0 28,93 | 1,581 | + ,020 | |
| 1965 . | II | 29 Scorpii | | —— | 3= 2,39 | 4 2,39 | 3,722 | + ,010 | |
| 2150 . | III | Draconis | | —— | 3=38,77 | 4 38,77 | 1,146 | — ,002 | |
| 2154 . | III | 129 ——— | | —— | 2=13,31 | 6 13,31 | 0,688 | + ,012 | |
| 2155 . | III | Herculis | | 3=20,03 | 2=20,35 | 6 20,16 | 2,725 | + ,007 | |
| 1973 . | II | 39 Ophiuchi | *o* | —— | 2= 1,15 | 8 1,15 | 3,650 | + ,001 | |
| 1974 . | II | ——— | | —— | 2= 6,76 | 8 6,76 | 3,644 | + ,020 | |
| 1977 . | II | 22 Draconis | $\zeta$ | —— | 2=19,52 | 8 19,52 | 0,153 | + ,004 | |
| 1979 . | II | Ophiuchi | | —— | 2=21,09 | 10 21,09 | 3,481 | + ,009 | |
| 1983 . | II | Aræ | $\gamma$ | —— | 2=36,94 | 11 36,94 | 5,019 | —— | Differs 1″,60 from A. S, C. |
| 1984 . | II | ——— | $\beta$ | —— | 2=41,29 | 11 41,29 | 4,958 | —— | |
| 2174 . | III | Ophiuchi | | 3=53,77 | 2=53,70 | 16 53,75 | 3,580 | + ,005 | |
| 2004 . | II | Ophiuchi | | 2=28,06 | 3=27,96 | 20 28,00 | 3,057 | + ,003 | |
| 2014 . | II | 54 ——— | | —— | 2=49,30 | 26 49,30 | 2,756 | + ,022 | |
| 2195 . | III | Herculis | | —— | 3=52,21 | 28 52,21 | 1,521 | + ,009 | |
| 2022 . | II | 24 Draconis | $\nu^1$ | —— | 2=57,27 | 28 57,27 | 1,156 | + ,029 | |
| 2023 . | II | 25 ——— | $\nu^2$ | —— | 2= 2,42 | 29 2,42 | 1,157 | + ,028 | |
| 2030 . | II | 27 Draconis | *f* | 1=37,86 | 2=38,00 | 32 37,95 | —0,290 | + ,003 | |
| 2213 . | III | 323 Herculis | | —— | 3=59,30 | 34 59,30 | +2,458 | + ,008 | |
| 1185 . | IV | 83 ——— | | 2=45,14 | 2=45,09 | 35 45,11 | +2,458 | + ,001 | |
| 2217 . | III | 144 Draconis | | —— | 1=13,76 | 37 13,76 | —1,668 | — ,022 | |
| 2220 . | III | Ophiuchi | | 2=54,13 | 3=54,57 | 37 54,40 | +2,929 | + ,003 | |

| Reference. No. Vol. | Names. | Mean A. R. Jan. 1, 1836.—from former obs. | Mean A. R. Jan. 1, 1836.—from present obs. | Concluded Mean A. R. Jan. 1, 1836. | Annual Precesn. | Annual P. M. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | s. | s. | h. m. s. | s. | s. | |
| 2041 of II | 28 Draconis ω | 3=54,65 | 2=55,19 | 17 37 54,87 | —0,367 | + ,005 | |
| 2221 . III | Ophiuchi | *4=55,07 | 4=55,23 | 37 55,15 | +2,934 | + ,006 | |
| 2222 . III | ——— | ——— | 2=39,44 | 38 39,44 | 2,932 | + ,015 | |
| 1194 . IV | ——— | 2= 0,46 | 1= 0,18 | 39 0,37 | 2,934 | + ,009 | This observation was omitted in the Catalogue. |
| 2047 . II | Sagittarii | ——— | 1=39,86 | 40 39,86 | 3,852 | + ,014 | |
| 2232 . III | Telescopii | ——— | 2=57,63 | 41 57,63 | 3,969 | + ,018 | |
| 2233 . III | Ophiuchi | ——— | 1= 7,13 | 42 7,13 | 3,539 | + ,010 | |
| 2234 . III | Telescopii | ——— | 1=27,08 | 42 27,08 | 3,996 | + ,004 | |
| 2236 . III | ——— η | 1=58,90 | 1=59,14 | 42 59,02 | 3,992 | + ,002 | |
| 2246 . III | 356 Herculis | ——— | 3=46,06 | 45 46,06 | 1,563 | + ,020 | |
| 2251 . III | Herculis | ——— | 2=44,75 | 46 44,75 | 1,948 | + ,010 | |
| 2062 . II | 6 Sagittarii | ——— | 2=51,71 | 51 51,71 | 3,480 | — ,005 | |
| 2063 . II | ——— | 1=58,34 | 5=58,45 | 51 58,43 | 3,628 | + ,004 | |
| 2064 . II | 66 Ophiuchi n | ——— | 1= 8,54 | 52 8,54 | 2,970 | + ,001 | |
| 2065 . II | 94 Herculis ν | ——— | 2=13,92 | 52 13,92 | 2,291 | + ,018 | |
| 2261 . III | 19 Sagittarii | ——— | 1=35,27 | 52 35,27 | 3,632 | ,000 | |
| 2067 . II | 7 ——— a | 4=48,53 | 1=48,13 | 52 48,45 | 3,670 | + ,007 | Differs 1,5s. from A. S. C. |
| 2069 . II | Sagittarii | ——— | 1=50,52 | 52 50,52 | 3,573 | + ,002 | |
| 2070 . II | Tauri Pon | ——— | 1=53,21 | 52 53,21 | 2,921 | + ,019 | |
| 2073 . II | Aræ θ | ——— | 1=52,35 | 53 52,35 | 4,665 | ——— | |
| 2264 . III | Sagittarii | ——— | 1=59,71 | 53 59,71 | 3,630 | + ,002 | |
| 2266 . III | Telescopii B | 3=58,67 | 1=58,55 | 54 58,64 | 4,333 | — ,011 | |
| 2268 . III | Draconis | ——— | 2=54,77 | 55 54,77 | —2,743 | + ,017 | |
| 2084 . II | ——— | ——— | 5=47,15 | 56 47,15 | —2,710 | — ,018 | |
| 2083 . II | Sagittarii | ——— | 3=21,71 | 57 21,71 | +3,593 | + ,012 | |
| 2281 . III | Sagittarii | ——— | 1=22,24 | 18 0 22,24 | 3,721 | — ,006 | |
| 1246 . IV | ——— | 3=29,20 | 2=29,15 | 7 29,18 | 4,085 | — ,003 | These observations were omitted in the Catalogue. |
| 2298 . III | Clyp. Sob. | 1=20,80 | 2=20,96 | 12 20,91 | 3,460 | + ,008 | |
| 2109 . II | 58 Serpentis η | ——— | 3=49,70 | 12 49,70 | 3,092 | — ,008 | |
| 2110 . II | 20 Sagittarii ε | 7=17,15 | 1=17,21 | 13 17,16 | 3,983 | — ,001 | |
| 2119 . II | Pavonis ν | ——— | 2= 3,37 | 16 3,37 | 5,615 | ——— | |
| 2306 . III | 167 Draconis | 3=13,70 | 2=14,10 | 16 13,86 | —0,350 | + ,005 | |
| 2311 . III | Sagittarii | 2 ——— | 4=15,87 | 19 15,87 | +3,938 | + ,009 | |
| 2125 . II | Clyp. Sob. | 6=50,94 | 3=51,17 | 19 51,02 | 3,416 | ——— | |
| 2126 . II | Sagittarii $v^1$ | 2=19,50 | 1=19,57 | 20 19,52 | 3,935 | + ,001 | |
| 2127 . II | Clyp. Sob. | ——— | 3=25,89 | 20 25,89 | 3,417 | ——— | |
| 2135 . II | Sagittarii $v^2$ | ——— | 1=12,05 | 23 12,05 | 3,936 | — ,001 | |
| 2136 . II | ——— | ——— | 5=13,04 | 23 13,04 | 3,666 | + ,009 | |
| 1267 . IV | ——— | 2=19,86 | 1=20,00 | 23 19,91 | 3,933 | + ,004 | This observation was omitted in the Catalogue. |
| 2137 . II | Clyp. Sob. $s^1$ | ——— | 3=21,57 | 23 21,57 | 3,424 | + ,004 | |
| 2140 . II | Sagittarii | ——— | 2=33,79 | 23 33,79 | 3,512 | + ,007 | |
| 2138 . II | Pavonis ζ | ——— | 2=49,46 | 23 49,46 | 7,054 | ——— | Differs — 2,65s. from A. S. C. |
| 2141 . II | 24 Sagittarii | 1=52,54 | 1=52,47 | 23 52,50 | 3,666 | ,000 | ———+ 2,19s. —— Paramatta Obs. |
| 2142 . II | Clyp. Sob. $s^2$ | ——— | 3=16,96 | 24 16 96 | 3,423 | + ,011 | |
| 2324 . III | Sagittarii | 1=41,61 | 1=41,35 | 24 41,48 | 3,931 | — ,003 | |
| 2328 . III | Lyræ | 1=21,66 | 1=22,40 | 27 22,15 | 2,005 | + ,009 | The observation in 1835 is incomplete, and marked "*faint.*"—I have given it half the credit of the other. |
| 2151 . II | Clyp. Sob. | ——— | 2=20,28 | 28 20,28 | 3,483 | + ,006 | |
| 2152 . II | Sagittarii | ——— | 2=32,62 | 28 32,62 | 3,649 | + ,015 | |
| 2153 . II | Herculis | ——— | 2=40,20 | 28 40,20 | 2,492 | — ,008 | |
| 2154 . II | Sagittarii | ——— | 3= 6,74 | 29 6,74 | 3,582 | + ,002 | |

* See errata.

| Reference. No. Vol. | Names. | Mean A. R. Jan. 1, 1836.—from former obs. | Mean A. R. Jan. 1, 1836.—from present obs. | Concluded Mean A. R. Jan. 1, 1836. | Annual Precesn. | Annual P. M. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | s. | s. | h. m. s. | s. | s. | |
| 2332 of III | 37 Lyræ | *2=51,63 | 2=52,52 | 18 29 52,07 | +2,004 | + ,002 | |
| 2340 . III | 14 Cor. Aust. | 3=33,46 | 1=33,38 | 32 33,44 | 4,172 | — ,021 | |
| 1281 . IV | —— —— | 1=35,51 | 1=35,82 | 32 35,66 | 4,172 | — ,019 | This observation was omitted in the Catalogue. |
| 2347 . III | Lyræ | —— | 3=35,81 | 36 35,81 | 2,095 | + ,005 | |
| 2183 . II | Sagittarii | 2= 5,08 | 2= 5,07 | 46 5,04 | 3,634 | + ,013 | |
| 2366 . III | Sagittarii | —— | 1=38,75 | 46 38,75 | 3,632 | + ,015 | |
| 2193 . II | 64 Serpentis | 1= 2.12 | 2= 1.83 | 49 1,92 | 3,015 | + ,011 | |
| 2389 . III | 114Lyr æ | 3=48,19 | 3=47.85 | 56 48,02 | 1,693 | + ,014 | |
| 1350 . IV | Aquilæ | 3=58,76 | 2=58,71 | 19 6 58,74 | 2,864 | + ,026 | These were omitted in the Catalogue. |
| 1354 . IV | —— | 2=16,54 | 1=16,66 | 8 16,58 | 2,864 | + ,009 | Do. Do. Do. |
| 2236 . II | Sagittarii | —— | 1=38 92 | 9 38,92 | 3,430 | — ,004 | |
| 2244 . II | —— $\beta^2$ | —— | 1=21,36 | 11 21,36 | 4,346 | — ,012 | |
| 2246 . II | —— —— | —— | 1= 0,08 | 12 0,08 | 3,519 | — ,003 | |
| 2247 . II | 28 Aquilæ A | —— | 1= 0,23 | 12 0,22 | 2,796 | — ,001 | |
| 2249 . II | 27 —— $d$ | —— | 1= 8,08 | 12 8,01 | 3,095 | + ,009 | |
| 2264 . II | Sagittarii | 1= 6,07 | 2= 6,03 | 17 6,04 | 3,403 | + ,008 | |
| 2269 . II | 4 Vulpeculæ | —— | 2=17,05 | 18 17,05 | 2,623 | + ,014 | |
| 2271 . II | 3 Cygni | —— | 2=38,66 | 18 38,66 | 2,491 | — ,009 | |
| 2272 . II | 60 Draconis $r$ | —— | 2=39,41 | 18 39,41 | —1,057 | + ,036 | N. P. D. 16°,54′. |
| 1387 . IV | Anseris | 2=18,18 | 1=18,47 | 19 18,28 | +2,621 | + ,005 | This observation was omitted in the Catalogue. |
| 2427 . III | 19 Cygni | 3= 5,81 | 3= 5,82 | 20 5,81 | 1,571 | + ,012 | |
| 2276 . II | Sagittarii | 5= 9,76 | 2= 9,72 | 21 9,75 | 3,566 | + ,005 | |
| 2446 . III | 39 Cygni | 3=45,26 | 2=45,29 | 27 45,27 | 1,272 | + ,007 | |
| 2447 . III | Sagittarii | —— | 2=50,20 | 27 50,20 | 3,298 | + ,007 | |
| 1430 . IV | Sagittæ | 3= 5,55 | 1= 5,35 | 34 5,50 | 2,674 | + ,009 | } These observations were omitted in the Catalogue. |
| 1436 . IV | Sagittæ | 2=18,86 | 1=18,75 | 35 18,83 | 2,670 | + ,016 | |
| 1437 . IV | —— | 4=28,18 | 2=28,23 | 35 28,20 | 2,680 | + ,004 | |
| 2464 . III | 73 Cygni | 2=27,59 | 2=27,27 | 37 27,43 | 1,610 | — ,001 | |
| 2465 . III | Aquilæ $v$ | 2=41,29 | 1=41,43 | 37 41,33 | 2,914 | + ,017 | |
| 2468 . III | Cygni | 3=38,64 | 2=38,60 | 39 38,63 | 2,197 | + ,005 | |
| 2478 . III | Aquilæ | 3=23,05 | 1=22,76 | 44 22,98 | 2,830 | — ,014 | |
| 2481 . III | 25 Sagittæ | 3= 3,02 | 1= 2,95 | 45 3,00 | 2,673 | + ,002 | |
| 2482 . III | 187 Aquilæ | 3=44,52 | 2=44,85 | 45 44,65 | 3,250 | — ,017 | |
| 1475 . IV | —— —— | 3= 5,91 | 2= 5,80 | 54 5,87 | 2,835 | + ,004 | These observations were omitted in the Catalogue. |
| 2505 . III | 18 Cephei | —— | 2=38,96 | 55 38,96 | 1,242 | + ,022 | |
| 2363 . II | 63 Aquilæ $\tau$ | —— | 3= 7,66 | 56 7,66 | 2,929 | + ,009 | |
| 2365 . II | 15 Sagittæ $z$ | 5=44,34 | 2=44,13 | 56 44,28 | 2,686 | + ,002 | |
| 2510 . III | Draconis $e^1$ | —— | 2=43,32 | 59 43,32 | 0,657 | + ,011 | |
| 2370 . II | 17 Vulpeculæ $i$ | 5=50,36 | 1=50,56 | 59 50,39 | 2,573 | — ,008 | |
| 2524 . III | Antinous | 2= | 1=52,27 | 20 2 52,27 | 3,080 | + ,015 | The result in Vol. II. belongs to Piazzi No. 12. |

* It has long been a subject of great perplexity to me—that the discordances to be met with among observations, should occasionally so far exceed the probable, and even what one could suppose the possible limits of error—this complaint however, is not altogether new;—for, so far back as 1825, Mr. Pond remarked that the results of observations of the Star *Regulus* derived from the two Mural Circles at Greenwich, differed, to an amount exceeding that which could reasonably be attributed either to the observers, or to the Instruments; be this as it may—the discordance which here occurs is so singularly large, that it merits particular investigation;—according I have examined and re-examined again and again every figure of the computation, in the hope of finding an error, or some circumstance, whereby the credit of the observer and instrument might be vindicated; the only circumstances which affect the two observations in the one case from those in the other, are—different observers—and, that in the former observations a *Lyræ* was observed in conjunction with this star (it being in the field with it):—this latter circumstance may appear trifling; but I have noticed, that any disturbance of the observer's attention, such as being hurried to observe a second star, invariably causes him to note the time *too soon*.

| Reference. No. Vol. | Names. | Mean A. R. Jan. 1, 1836.—from former obs. | Mean A. R. Jan. 1, 1836.—from present obs. | Concluded Mean A. R. Jan. 1, 1836. | Annual Precesn. | Annual P. M. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | s | s. | h. m. s. | s. | s. | |
| 2379 of II | 19 Vulpeculæ | 3=57,28 | 2=56,87 | 20 4 57,12 | +2,503 | + ,027 | These have been omitted in the Catalogue. |
| 2534 . III | Cygni $b^3$ | 1=23,68 | 1=23,68 | 8 23,68 | 2,236 | + ,015 | |
| 1530 . IV | ——— | 1=31,77 | 3=31,69 | 8 31,71 | 2,239 | + ,003 | These were omitted in the Catalogue. |
| 2390 . II | 18 Sagittæ | 5= 7,56 | 2= 7,49 | 3 7,54 | 2,632 | + ,013 | |
| 1540 . IV | Antinoi | 3=23,88 | 2=23,97 | 12 23,91 | 3,202 | + ,011 | |
| 1542 . IV | Capricorni | 2= 5,80 | 1= 6,02 | 13 5,87 | 3,395 | + ,015 | |
| 2546 . III | Cephei | —— | 2=31,76 | 13 31,76 | —1,905 | + ,097 | N. P. D. 12°,40′ ∴ P. M. = 0″,30 of arc. |
| 2567 . III | Cygni | —— | 5=50,70 | 23 50,70 | +1,836 | + ,007 | |
| 2575 . III | Ursæ Min. λ | —— | 1=54,00 | 24 54,00 | --49,116 | + ,094 | N. P. D. 1°,11′ ∴ P. M. = 0″,03 of arc. |
| 2420 . II | 46 Cygni $\omega^3$ | 1=15,52 | 2=15,26 | 26 15,35 | +1,848 | + ,012 | |
| 1598 . IV | Aquarii | 2=21,34 | 1=21,47 | 26 21,38 | 3,248 | — ,004 | This observation was omitted in the Catalogue. |
| 2576 . III | 53 Capricorni | 3=31,30 | 1=31,20 | 28 31,28 | 3,407 | + ,019 | |
| 2431 . II | 27 Vulpeculæ $p$ | —— | 2= 5,11 | 30 5,11 | 2,554 | + ,011 | |
| 2434 . II | 8 Delphini $\theta$ | 6=59,65 | 1=59,55 | 30 59,63 | 2,829 | + ,011 | |
| 2433 . II | 1 Aquarii | —— | 2= 0,41 | 31 0,41 | 3,070 | + ,009 | |
| 2592 . III | Delphini | 1=26,69 | 2=26,44 | 34 26,52 | 2,750 | + ,016 | |
| 1642 . IV | Aquarii | —— | —— | 36 —— | —— | —— | *Not now visible !* |
| 2603 . III | 61 Cephei | —— | 1=37,71 | 38 37,71 | —3,109 | + ,023 | This observation was omitted in the Catalogue. |
| 1652 . IV | Vulpeculæ | 2=43,78 | 1=43,91 | 40 43,82 | +2,579 | ,000 | The A. R. observed in 1833 pertains to another star—the place in the A. S. C. must be wrong, or the star has disappeared. |
| 2460 . II | Capricorni | 3= | —— | 41 —— | 3,595 | —— | |
| 2478 . II | 32 Vulpeculæ $q$ | 6=34,44 | 2=34,40 | 46 34,43 | 2,552 | + ,012 | |
| 2622 . III | ——— | —— | 1= 1,87 | 48 1,87 | 2,552 | + ,009 | |
| 2488 . II | 33 ——— $x$ | 2=56,60 | 4=56,86 | 50 56,77 | 2,678 | + ,016 | |
| 2629 . III | ——— | —— | 1=43,60 | 50 43,60 | 2,678 | + ,009 | |
| 2638 . III | Microscopii | —— | 1= 8,37 | 55 8,37 | 3,693 | + ,028 | |
| 2641 . III | Microscopii $\eta$ | 2=43,87 | 2=43,89 | 55 43,88 | 3,934 | — ,011 | |
| 2643 . III | Vulpeculæ | 2=13,91 | 2=13,87 | 56 13,89 | 2,653 | + ,002 | |
| 2646 . III | Microscopii | 3=10,77 | 1=10,44 | 59 10,69 | 3,596 | + ,029 | |
| 2649 . III | Vulpeculæ | 3=43,65 | 1=43,96 | 21 0 43,72 | 2,668 | + ,005 | The blank which precedes this in Vol. III. must be cancelled. |
| 2664 . III | Aquarii | —— | 1=11,50 | 6 11,59 | 3,193 | + ,013 | |
| 2517 . II | 8 Equulei $a$ | 6=37,44 | 1=37,00 | 7 37,38 | 2,995 | + ,006 | |
| 2688 . III | Cephei | —— | 1= 7,89 | 19 7,89 | 1,728 | + ,006 | |
| 1807 . IV | Aquarii | 3=34,66 | 1=34,86 | 20 34,71 | 3,262 | + ,015 | This observation was omitted in the Catalogue. |
| 2701 . III | 111 Cephei | 2=35,22 | 1=35,74 | 24 35,39 | 1,175 | + ,020 | |
| 2554 . II | Capricorni | 5=19,66 | 2=19,61 | 25 19,65 | 3,280 | + ,016 | |
| 2706 . III | Aquarii | —— | 1= 1,96 | 27 1,96 | 3,065 | + ,008 | |
| 2726 . III | 377 Cygni | —— | 4=47,53 | 35 47,53 | 2,401 | + ,014 | |
| 1854 . IV | ——— | 2=57,61 | 5=57,76 | 35 57,72 | 2,402 | + ,011 | These observations were omitted in the Catalogue. |
| 2727 . III | Aquarii | —— | 2=10,26 | 36 10,26 | 3,203 | + ,015 | |
| 2583 . II | 10 Pegasi $\kappa$ | 4=13,34 | 1=13,15 | 37 13,30 | 2,706 | + ,004 | |
| 2733 . III | Pegasi | 2=48,93 | 2=48,65 | 38 48,79 | 2,753 | + ,005 | |
| 2735 . III | 64 ——— | —— | 2=14,15 | 41 14,15 | 2,519 | + ,008 | |
| 2746 . III | Grüis $v^2$ | 3= 7,40 | 4= 7,27 | 47 7,33 | 3,649 | + ,028 | |
| 1902 . IV | Aquarii | 3= 6,59 | 1= 6,68 | 54 6,61 | 3,088 | + ,013 | This observation was omitted in the Catalogue. |
| 2771 . III | 174 Cephei | 1= 5,41 | 2= 5,89 | 22 0 5,73 | 1,840 | + ,015 | See Piazzi's Note to these Stars. |
| 2772 . III | 175 Cephei | —— | 1= 1,78 | 0 1,78 | 1,812 | + ,014 | See Piazzi's Note to these Stars. |
| 2774 . III | ——— | 1= 3,70 | 2= 3,65 | 3 3,66 | 2,004 | + ,010 | |
| 2775 . III | ——— | 2=25,71 | 1=25,20 | 3 25,54 | 2,025 | + ,024 | |
| 2640 . II | 39 Aquarii | 5=34,80 | 3=34,83 | 3 34,81 | 3,243 | + ,005 | |
| 2641 . II | Pegasi | —— | 1=56,37 | 3 56,37 | 2,891 | + ,013 | |

| Reference. No. Vol. | Names. | | Mean A. R. Jan. 1, 1836.—from former obs. | Mean A. R. Jan. 1, 1836.—from present obs. | Concluded Mean A R Jan. 1, 1836. | Annual Precesn. | Annual P. M. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | s. | s. | h. m. s. | s. | s. | |
| 2648 of II | Gruis | $\mu^1$ | 4=42,66 | 1=42,42 | 22 3 42,61 | +3,649 | + ,023 | |
| 2658 . II | 1 Lacertæ | $a$ | 5=49,86 | 1=49,75 | 8 49,84 | 2,599 | + ,019 | |
| 2796 . III | 162 Aquarii | | 2=11,60 | 2=11,62 | 13 11,61 | 3,141 | + ,003 | |
| 2687 . II | 37 Pegasi | $H^3$ | 5=40,66 | 1=40,85 | 21 40,69 | 3,033 | + ,006 | |
| 2688 . II | 57 Aquarii | $\sigma$ | 8=57,83 | 1=57,99 | 21 57,85 | 3,182 | + ,003 | |
| 2689 . II | 17 Pis. Aust. | $\beta$ | 6= 9,95 | 1=10,29 | 22 10,00 | 3,431 | + ,011 | |
| 2818 . III | 42 Lacertæ | | —— | 3=20,57 | 23 20,57 | 2,379 | + ,008 | |
| 2821 . III | 221 Cephei | | —— | 2=20,54 | 25 20,54 | −3,465 | + ,176 | N. P. D. 4°,44′ ∴ P. M. = 0″,21 of arc. |
| 2823 . III | ——— | | ——— | 2=52,99 | 25 52,99 | −3,596 | + ,106 | N. P. D. 4°,37′ ∴ P. M. = 0″,13 of arc. |
| 2825 . III | Piscis Aust. | $\sigma$ | 2=20,72 | 2=20,82 | 27 20,77 | +3,402 | ,000 | |
| 2833 . III | 7 Androm. | | 1=34,91 | 2=35,07 | 28 34,97 | 2,651 | + ,004 | |
| 2844 . III | Pegasi | $P^2$ | 2=51,39 | 1=51,78 | 33 51,52 | 2,949 | + ,001 | |
| 2711 . II | 43 ——— | $o$ | —— | 2= 3,92 | 34 3,92 | 2,802 | + ,010 | |
| 2713 . II | Aquarii | | 6=27,79 | 1=27,92 | 34 27,81 | 3,147 | + ,022 | |
| 2852 . III | ——— | | 3=22,85 | 2=22,89 | 39 22,87 | 3,108 | + ,003 | |
| 2856 . III | 237 Aquarii | | 1=13,24 | 1=13,32 | 42 13,28 | 3,131 | + ,001 | |
| 2885 . III | ——— | | —— | 4=28,20 | 59 28,20 | 3,266 | + ,018 | |
| 2895 . III | 303 Pegasi | | 1=46,32 | 4=46,22 | 23 1 46,24 | 3,015 | + ,010 | |
| 2907 . III | ——— | N | 2=28,49 | 1=28,14 | 9 28,38 | 2,977 | + ,006 | |
| 2908 . III | Pis. Aust. | | 3=41,20 | 1=41,51 | 9 41,28 | 3,231 | + ,045 | |
| 2909 . III | ——— | | 1=15,61 | 1=15,59 | 10 15,60 | 3,229 | + ,008 | |
| 2784 . II | 7 Piscium | $b$ | 5=59,31 | 1=59,77 | 11 59,39 | 3,046 | + ,014 | |
| 2787 . II | 62 Pegasi | $\tau$ | 5=31,80 | 2=31,56 | 12 31,73 | 2,952 | + ,012 | |
| 2814 . II | Aquarii | | 5= 4,54 | 1= 4,32 | 27 4,50 | 3,097 | + ,009 | The star observed here is of the 9th mag, agreeing with the small star mentioned by Piazzi; has then $A^2$ disappeared? |
| 2828 . II | 104 ——— | $A^2$ | —— | 4=16,12 | 33 16,12 | 3,122 | + ,048 | |
| 2959 . III | Androm. | | 3=27,44 | 1=27,13 | 36 27,36 | 2,930 | − ,001 | |
| 2966 . III | 306 Cephei | | 3=53,51 | 1=53,55 | 40 53,52 | 2,866 | + ,026 | |
| 2056 . IV | Pegasi | | 4=34,02 | 1=34,07 | 45 34,03 | 3,052 | + ,014 | |
| 2868 . II | Cassiopeæ | | —— | 4=17,67 | 53 17,67 | 2,996 | —— | |

In bringing up the results of Vol. II. and III. to 1836, as well as in reducing those of 1836—37, to the same epoch, the Annual Precession only has generally been employed; but in a few cases (where the P. M. was large) this too has roughly been applied; thus, to the results brought up with Precession from Vol. II, four times the amount of proper motion has been added: and to those from Vol. III. and from observation in 1836—37 one years proper motion only has been applied.

# SUPPLIMENTARY CATALOGUE OF THE DECLINATION OF THE FIXED STARS.

| Reference. No. | Vol. | A. R. | Names. | | Mean Decn. Jan. 1, 1836,—from former obs. | Mean Decn. Jan. 1, 1836,—from present obs. | Concluded Mean Decn. Jan. 1, 1836. | Annual Precession. | P. M. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | H. M. | | | ″ | ″ | ° ′ ″ | ″ | ″ | |
| 1 of | III | 0 1 | 24 Ceti | | —— | 4=37,01 | — 6 9 37,01 | +20,038 | —0,06 | |
| 2 . | III | 4 | 61 Andromedæ | | 5=43,30 | 2=41,07 | +40 7 42,66 | 20,038 | — ,08 | |
| 16 . | II | 6 | 35 Piscium | B | 5=34,70 | 1=35,80 | + 7 54 34,88 | 20,035 | — ,10 | |
| 21 . | II | 11 | Tucanæ | ζ | 10=23,19* | 2=19,76 | —65 50 22,62 | 20,019 | —— | Differs 2′ from A. S. C. |
| 19 . | III | 22 | 117 Piscium | | 3=47,35 | 1=51,00 | +15 7 48,26 | 19,947 | — ,13 | |
| 40 . | II | 23 | Phœnicis | $\lambda^1$ | 10=42,26 | 1=41,67 | —49 42 42,21 | 19,940 | —— | Differs nearly 1′ from A. S. C. |
| 44 . | II | 23 | Tucanæ | $\beta^1$ | —— | 1=42,32 | —63 51 42,32 | 19,935 | —— | |
| 45 . | II | 23 | —— | $\beta^2$ | —— | 1= 7,97 | —63 52 7,97 | 19,935 | —— | |
| 22 . | III | 26 | App. Sculp. | $\xi$ | 4= 3,75 | 1= 6,90 | —35 53 4,38 | 19,916 | — ,51 | |
| 27 . | III | 28 | 117 Andromedæ | | 4=45,11 | 1=45,67 | +23 6 45,22 | 19,887 | — ,01 | |
| 59 . | II | 30 | 31 Andromedæ | $\delta$ | 11=41,41 | 4=40,29 | +29 57 41,12 | 19,968 | — ,30 | This large P. M. is in accordance with the diff. from A. S. C. |
| 79 . | II | 39 | Piscium | | 5= 5,88 | 6= 7,53 | + 4 26 6,77 | 19,747 | —1,25 | |
| 58 . | III | 50 | 322 Cephei | | 4= 4,18 | 3= 4,31 | +86 16 4,24 | 19,554 | +0,12 | In Vol. III. the result was accidentally omitted. |
| 108 . | II | 56 | 74 Piscium | $\psi^1$ | 5=36,51 | 2=36,79 | +20 35 36,59 | 19,435 | —0,03 | |
| 67 . | III | 57 | Cassiopeæ | $\mu$ | 4=44,89 | 2=44,80 | +54 6 44,86 | 19,418 | —1,55 | Piazzi states P. M. = — 0″,65. |
| 113 . | II | 58 | 79 Piscium | $\psi^2$ | 4=52,92 | 2=52,30 | +19 51 52,71 | 19,386 | —0,19 | |
| 124 . | II | 1 1 | 32 Ceti | | 5=—— | 3=51,76 | — 9 46 51,76 | 19,321 | — ,29 | A wrong star observed in 1832 Pi. gives P. M. —″,02 |
| 132 . | II | 4 | 86 Piscium | $\zeta^1$ | 6=23,35 | 1=23,65 | + 6 42 23,39 | 19,245 | — ,05 | |
| 135 . | II | 5 | 88 —— | | 5=34,73 | 1=37,11 | + 6 7 35,13 | 19,221 | — ,04 | |
| 140 . | IV | 9 | Cassiopeæ | | 2=37,10 | 1=36,81 | +57 20 37,03 | 19,119 | + ,02 | |
| 97 . | III | 10 | Cassiopeæ | $\phi$ | 4= 2,92 | 2= 3,60 | +57 22 3,15 | 19,114 | + ,06 | |
| 158 . | II | 19 | Piscium | | 5=34,71 | 1=34,68 | + 7 6 34,70 | 18,850 | + ,03 | |
| 162 . | II | 21 | 98 —— | $\mu$ | 10=43,11 | 5=40,83 | + 5 17 42,35 | 18,795 | — ,17 | |
| 167 . | II | 24 | Phœnicis | $\delta$ | 8=41,62 | 4=39,77 | —49 55 41,00 | 18,706 | —— | |
| 178 . | II | 28 | 102 Piscium | $\pi$ | 5= 4,99 | 4= 3,15 | +11 18 4,17 | 18,580 | + ,09 | |
| 138 . | III | 32 | 137 Cassiopeæ | | 4=11,46 | 3=10,98 | +59 43 11,25 | 18,434 | + ,17 | These 9 observations had been overlooked. |
| 183 . | IV | 44 | 5 Arietis | $\gamma^1$ | 9=22,10 | 4=20,92 | +18 29 21,74 | 18,001 | — ,14 | |
| 172 . | III | 50 | 153 Cassiopeæ | | 5=36,15 | 2=35,08 | +63 35 35,84 | 17,730 | + ,04 | |
| 217 . | II | 52 | 59 Ceti | $v^2$ | 7=30,10 | 3=30,07 | —21 52 30,09 | 17,697 | — ,04 | Differs 11″ from G. C. |
| 220 . | II | 53 | 57 Andromedæ | $\gamma$ | 5=22,31 | 2=21,82 | +41 32 22,17 | 17,635 | ,00 | |
| 181 . | III | 54 | 37 Arietis | | 4=26,66 | 1=23,05 | +25 8 25,76 | 17,587 | — ,17 | |
| 196 . | III | 2 2 | 52 —— | | 4= —— * | 4=32,93 | +25 9 32,93 | 17,267 | — ,05 | N. P. D. 5° wrong in Vol. II. |
| 214 . | III | 6 | Persei | $\chi$ | 4= 6,55 | 3= 5,23 | +56 45 5,98 | 17,050 | — ,05 | |
| 219 . | III | 9 | 262 Eridani | | —— | 1=27,09 | +48 11 27,09 | 16,954 | + ,12 | |
| 243 . | II | 11 | 68 Ceti | $o$ | —— | 4=47,26 | — 3 43 47,26 | 16,868 | — ,69 | |
| 218 . | IV | 13 | Ceti | | 4=47,68 | 2=45,70 | — 3 42 47,02 | 16,732 | — ,03 | |
| 227 . | IV | 19 | Trianguli | | 2=54,30 | 7=52,93 | +28 56 54,00 | 16,452 | — ,12 | |
| 247 . | III | 23 | 43 —— | | 4=49,06 | 4=49,20 | +33 48 49,13 | 16,270 | — ,05 | |
| 251 . | III | 25 | 46 —— | | 4= 2,00 | 3=59,23 | +33 58 0,81 | 16,108 | + ,15 | |
| 230 . | IV | 25 | —— | | 4=13,33 | 3= 9,93 | +34 0 11,87 | 16,140 | — ,12 | |
| 268 . | II | 27 | Ceti | | 5= 1,42 | 3= 1,39 | + 6 6 1,40 | 16,075 | +1,45 | [(45″) from A. S. C. This P. M. accounts for the diff. |
| 270 . | II | 27 | 30 Arietis | | 10=45,22 | 3=47,72 | +23 55 47,72 | 16,051 | —0,05 | I have retained the result of 30 Arietis for 1836, in order to shew the difference of Declination. |
| 271 . | II | 27 | —— | | —— | 3=46,37 | +23 55 46,37 | 16,048 | — ,05 | |
| 253 . | III | 27 | Ceti | $d^1$ | 4=43,01 | 1=43,00 | — 4 15 43,01 | 16,043 | — ,56 | |
| 234 . | IV | 29 | Persei | | 2=51,86 | 2=54,02 | +48 50 52,94 | 15,926 | + ,06 | |

* See errata.

| Reference. No. Vol. | A. R. | Names. | Mean Decn. Jan. 1, 1836.—from former obs. | Mean Decn. Jan. 1, 1836.—from present obs. | Concluded Mean Decn. Jan. 1, 1836. | Annual Precession. | P. M. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | H. M. | | ″ | ″ | ° ′ ″ | ″ | ″ | |
| 280 . II | 2 32 | 83 Ceti ε | 9=16,22 | 4=18,55 | −12 34 16,99 | 15,829 | — ,20 | |
| 295 . II | 36 | Hydri ε | —— | —— | −68 58 —— | 15,528 | —— | *Not now visible!* |
| 242 . IV | 37 | Persei | 2=35,28 | 1=33,41 | +48 29 34,66 | 15,470 | — ,10 | |
| 252 . IV | 49 | —— | 2=40,02 | 3=36,87 | +51 22 38,23 | 14,805 | + ,05 | |
| 324 . II | 51 | Horologii β | —— | —— | −63 31 —— | 14,701 | —— | *Not now visible!* |
| 330 of II | 52 | 8 Eridani ρ¹ | 10=47,28 | 4=46,64 | − 8 18 47,10 | +14,610 | — ,09 | The observations in 1833 refer to another star;—from a recent examination *this star is not now visible!* |
| 337 . II | 55 | Fornacis | 2=23,65 | —— | −23 37 —— | 14,483 | —— | |
| 261 . IV | 3 3 | Camelop. | 2=26,76 | 2=26,34 | +65 2 26,55 | 13,948 | — ,08 | |
| 303 . III | 5 | Messoris A² | 4=34,10 | 3=33,84 | +65 2 33,99 | 13,801 | — ,11 | |
| 321 . III | 12 | 142 Persei | 4 —— | 2= 9,26 | +48 37 9,26 | 13,418 | — ,05 | A wrong star observed in 1835. |
| 368 . II | 13 | Eridani e | 9= 0,98 | 3=59,96 | −43 42 0,72 | 13,346 | + ,87 | Piazzi states the P. M. to be +0″,83 |
| 341 . III | 27 | Persei | 4=13,87 | 4=15,40 | +30 34 14,63 | 12,368 | — ,05 | |
| 389 . II | 28 | 20 Eridani F | —— | 6=49,28 | −18 0 49,28 | 12,302 | — ,06 | |
| 426 . II | 42 | —— | 5=33,10 | 4=35,75 | −38 7 34,28 | 11,329 | — ,18 | |
| 429 . II | 43 | Tauri | 7=59,94 | 2= 1,51 | +16 50 0,29 | 11,248 | ,00 | |
| 384 . III | 44 | 210 Eridani | 4= 6,41 | 1= 6,21 | — 5 33 6,37 | 11,169 | — ,06 | |
| 439 . II | 49 | Hydri γ | 1=56,93 | 3=35,44 | −74 44 35,44 | 10,772 | —— | The observation in 1833 refers to another star. |
| 450 . II | 56 | Reticuli δ | 10=53,80 | 4=52,04 | −61 51 53,30 | 10,318 | —— | |
| 483 . II | 4 11 | Doradus γ | 10=13,10 | 3=10,25 | −51 54 12,44 | 9,133 | —— | |
| 482 . II | 11 | 41 Eridani X | 10=10,41 | 3= 9,57 | −34 12 10,28 | 9,011 | + ,05 | |
| 436 . III | 14 | 220 Persei | 4=26,59 | 4=26,61 | +33 27 26,60 | 8,922 | —— | A wrong star. |
| 506 . II | 17 | 43 Eridani | 10= 8,03 | 3= 8,14 | −34 24 8,05 | 8,656 | — ,02 | |
| 515 . II | 21 | 80 Tauri | —— | 4=20,30 | +15 16 20,30 | 8,434 | — ,17 | |
| 448 . III | 22 | —— m | 4 —— | 3=43,31 | +42 40 43,31 | 8,307 | + ,14 | |
| 462 . III | 27 | Eridani v¹ | 4=12,59 | 3=11,96 | −30 6 12,32 | 7,896 | — ,29 | |
| 465 . III | 28 | Scep. Brand. | 4=54,01 | 2=32,06 | — 8 47 53,36 | 7,740 | + ,04 | |
| 332 . IV | 28 | Eridani | 4= 6,83 | 2= 6,43 | — 8 38 6,70 | 7,858 | — ,07 | |
| 543 . II | 32 | Tauri τ | 14= 9,58 | 2= 9,30 | +22 38 9,55 | 7,504 | — ,01 | |
| 578 . II | 50 | —— | 1= 9,00 | 3= 6,90 | +14 17 7,42 | 6,081 | — ,07 | |
| 515 . III | 51 | Eridani | —— | 3=27,21 | −10 36 27,21 | 5,877 | — ,08 | |
| 523 . III | 54 | Aurigæ e | —— | 3=14,11 | +62 15 14,11 | 5,659 | + ,07 | |
| 610 . II | 5 3 | Doradus ζ | 7=54,95 | 3=51,41 | −57 41 53,89 | 4,965 | —— | |
| 612 . II | 4 | 14 Aurigæ a | —— | 3=21,01 | +32 29 21,01 | 4,819 | + ,18 | |
| 554 . III | 10 | 2 Columbæ | 4=57,52 | 3=55,70 | −35 6 56,74 | 4,338 | — ,10 | This P. M. is in accordance with the diff. (20″+) from A. S. C. |
| 630 . II | 11 | —— o | 10=40,32 | 3=39,40 | −35 3 40,11 | 4,223 | — ,58 | |
| 667 . II | 24 | 120 Tauri | —— | 3=59,60 | +18 24 59,60 | 3,173 | ,00 | |
| 672 . II | 25 | Columbæ ε | 5=43,89 | 4=45,76 | −35 35 44,72 | 3,034 | — ,17 | |
| 590 . III | 26 | Orionis | —— | 4=23,99 | — 4 55 23,99 | 2,922 | — ,14 | |
| 593 . III | 27 | —— c² | —— | 3=12,46 | — 4 58 12,46 | 2,813 | — ,08 | |
| 685 . II | 28 | 40 —— φ² | 8=42,06 | 3=44,39 | + 9 11 42,69 | 2,827 | — ,30 | |
| 693 . II | 31 | 49 Orionis d | 9=36,44 | 4=39,04 | — 7 18 37,24 | 2,558 | — ,11 | |
| 609 . III | 33 | 393 Tauri | 3=37,51 | 2=39,05 | +18 53 38,13 | 2,315 | — ,03 | |
| 699 . II | 34 | Columbæ a | 43=55,88 | 4=56,99 | −34 9 56,43 | 2,313 | — ,01 | |
| 721 . II | 42 | Tauri | 5 —— | 4=35,04 | +13 59 35,04 | 1,647 | + ,02 | A wrong star observed in 1832. |
| 732 . II | 45 | Columbæ β | 9= 6,24 | 4= 5,05 | −35 50 5,87 | 1,314 | + ,25 | |
| 735 . II | 47 | 34 Aurigæ β | 11=13,75 | 3=14,26 | +44 55 13,86 | 1,131 | — ,15 | |
| 658 . III | 51 | Camelop. n | —— | 3= 4,58 | +51 34 4,58 | 0,723 | + ,03 | |
| 746 . II | 52 | Columbæ γ | 10=22,96 | 4=21,80 | −35 18 22,63 | 0,742 | — ,11 | |
| 757 . II | 57 | 67 Orionis v | 27=48,00 | 3=48,33 | +14 46 48,03 | 0,187 | — ,23 | |
| 674 . III | 59 | 191 Aurigæ | 3= 5,66 | 2= 4,78 | +48 44 5,31 | 0,058 | ,00 | |

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|---|---|---|---|---|---|---|---|---|
| | H. M. | | ″ | ″ | ° ′ ″ | ″ | ″ | |
| 684 . III | 6 1 | Columbæ | —— | 3=52,68 | −37 10 52,68 | − 0,152 | + ,03 | |
| 700 . III | 8 | 24 Monocer. | —— | 3=37,55 | + 5 8 37,55 | 0,770 | + ,04 | |
| 703 . III | 10 | 25 ——— | —— | 3=12,12 | −10 40 12,12 | 0,868 | − ,05 | |
| 787 . II | 11 | Columbæ κ | 10=29,52 | 4=29,49 | −35 5 29,51 | 0,914 | + ,12 | |
| 707 . III | 11 | Lyncis | 3=11,69 | 1=11,41 | +58 30 11,62 | 1,018 | − ,10 | |
| 791 of II | 14 | I Canis Maj. ζ | 10=48,09 | 3=46,00 | −29 59 48,57 | − 1,205 | − ,09 | |
| 793 . II | 15 | Monocer. | 5=26,30 | 2=26,27 | + 3 50 26,29 | 1,254 | − ,08 | |
| 794 . II | 15 | 8 ——— b | 5= 7,32 | 4= 8,50 | + 4 42 7,84 | 1,290 | − ,69 | |
| 799 . II | 18 | 15 Geminor. | 5=58,85 | 4=59,27 | +20 52 59,03 | 1,541 | − ,03 | |
| 726 . III | 18 | 122 Camelop. | 4=12,63 | 3= 9,76 | +79 43 11,26 | 1,582 | − ,32 | |
| 728 . III | 19 | 11 Navis | 4=32,53 | 2=34,22 | −36 37 33,10 | 1,620 | ,00 | |
| 747 . III | 23 | 17 Lyncis | —— | 3=51,44 | +61 36 51,44 | 2,083 | +1 25 | |
| 770 . III | 30 | Canis Maj. ν¹ | 4=46,61 | 2=44,58 | −18 31 45,93 | 2,558 | +0.19 | |
| 780 . III | 32 | 23 Lyncis seq | 4=43,36 | 2=40,28 | +59 35 42,33 | 2,795 | − .15 | |
| 790 . III | 35 | Canis Maj. | —— | 3=49,88 | −27 28 49,88 | 3,078 | + ,10 | |
| 490 . IV | 39 | Canis Maj. | 3=25,96 | 2=29,40 | −20 36 27,33 | 3,400 | + ,02 | |
| 807 . III | 43 | 29 Lyncis | 4=38,73 | 3=38,25 | +57 45 38,52 | 3,778 | ,00 | |
| 809 . III | 45 | Canis Maj. h | 4= 9,51 | 1= 9,25 | −31 31 9,46 | 3,853 | + ,09 | |
| 854 . II | 46 | 14 —— —— θ | —— | 3=18,17 | −11 50 18,17 | 4,021 | ,00 | |
| 814 . III | 47 | Lyncis | 1=30,43 | 1=32,97 | +57 48 31,70 | 4,116 | + ,05 | |
| 820 . III | 50 | 112 Canis Maj. | 3=—— | 3=14,44 | −16 53 14,44 | 4,363 | − ,05 | [See Piazzi's note. A wrong star observed in 1835;— Differs 26″,59 from A. S. C. |
| 871 . II | 52 | Geminor. | 5=14,88 | 1=13,50 | +29 36 14,65 | 4,567 | − ,81 | |
| 831 . III | 55 | Lyncis | —— | 4=31,58 | +60 59 31,58 | 4,798 | + ,06 | |
| 511 . IV | 7 0 | Navis | 1=—— | 3= 6,65 | −43 23 6,65 | 5,109 | + ,46 | The result in the Catalogue is erroneous. |
| 847 . III | 2 | 123 Geminor. | 4=42,78 | 3=44,50 | +15 35 43,52 | 5,367 | − ,10 | |
| 528 . IV | 9 | 19 Lyncis | 1=58,80 | 2= 1,33 | +55 34 0,48 | 6,010 | − ,06 | |
| 891 . III | 14 | 144 Geminor. | —— | 3=51,43 | +27 56 51,43 | 6,410 | + ,05 | |
| 894 . III | 16 | Navis | 4= 8,65 | 4= 8,14 | −31 44 8,40 | 6,569 | + ,05 | |
| 917 . III | 26 | Canis Min. | —— | 3=37,95 | + 3 41 37,95 | 7.384 | − ,02 | |
| 943 . III | 35 | 186 Navis | 8=13,52 | 3=12,94 | −38 9 13,36 | 8,126 | − ,04 | |
| 944 . III | 36 | Navis | —— | 3=44,94 | −38 8 44,94 | 8,179 | − ,02 | |
| 947 . III | 38 | ——— T | 3=38,28 | 3=39,90 | −44 45 39,09 | 8,312 | − ,59 | |
| 957 . III | 42 | 217 Navis | —— | 3=26,93 | −24 33 26,93 | 8,639 | − ,38 | |
| 989 . II | 56 | 9 Cancri μ¹ | 5=51,98 | 3=52,32 | +23 5 52,11 | 9,734 | − ,06 | |
| 993 . III | 57 | Navis | —— | 3=55,21 | −19 18 55,21 | 9,824 | + ,12 | |
| 999 . II | 8 2 | 15 Cancri ψ³ | —— | 3=27,74 | +30 8 27,74 | 10,216 | + ,11 | |
| 1004 . II | 5 | ——— | 4=51,76 | 1=51,46 | +18 9 51,70 | 10,356 | − ,04 | |
| 1009 . II | 7 | Piscis Vol. ε | —— | 3= 3,87 | −68 8 3,87 | 10,572 | —— | |
| 1013 . III | 7 | Navis | —— | 3=54,98 | −31 39 54,98 | 10,537 | + ,09 | |
| 1024 . II | 16 | 23 Cancri φ² | —— | 3=53,14 | +27 27 53,14 | 11,243 | + ,02 | |
| 1032 . II | 19 | Argus ε | —— | 3=57.65 | −58 58 57,65 | 11,426 | —— | |
| 1049 . II | 31 | Cancri | 5=—— | 2=45,33 | +20 6 45.33 | 12,206 | − ,16 | A great number of stars at this spot has created much confusion;— these must be re-examined. Differs above 23″ from G. C. |
| 1055 . II | 31 | ——— | 5= 7,75 | 3= 6,91 | +20 7 7,51 | 12.249 | − ,11 | |
| 1061 . II | 33 | Pixid Naut. β | 11=51,15 | 3=51,47 | −34 43 51,23 | 12,439 | − ,10 | |
| 1066 . III | 37 | Monocer. r | 4=51,08 | 3=48,86 | − 6 38 50,13 | 12,600 | + ,02 | |
| 1080 . II | 41 | Cancri | 5=30,19 | 2=29.80 | +18 36 30,09 | 12,952 | ,00 | |
| 646 . IV | 9 0 | Pixid. Naut. | 3=47,03 | 3=47,68 | −25 10 47,36 | 14,208 | − ,13 | |
| 1124 . II | 7 | Argus i | 8=41,23 | 4=43,02 | −61 38 41,68 | 14,623 | —— | |
| 1121 . III | 9 | Navis k¹ | 4=26,28 | 3=25,32 | −36 55 25,87 | 14,692 | − ,02 | |
| 1136 . III | 15 | Hydræ | 4=49,10 | 4=49,44 | + 4 11 49,27 | 15,062 | − ,11 | |

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|---|---|---|---|---|---|---|---|---|
| | H. M. | | ″ | ″ | ° ′ ″ | ″ | ″ | |
| 1151 of II | 9 21 | 31 Hydræ $\tau^1$ | 5=21,58 | 3=19,63 | — 2 3 20,85 | —15,382 | — ,08 | |
| 1173 . III | 31 | ——— | ——— | 3=31,23 | — 9 58 31,23 | 16,004 | + ,18 | |
| 1179 . II | 39 | 29 Ursæ Maj. $v$ | 13=15,46 | 3=14,30 | +59 48 15,24 | 16,359 | — ,25 | Differs 5″,6 from G. C. |
| 1191 . II | 46 | 9 Sextantis | 5=52,22 | 4=50,96 | + 5 42 51,66 | 16,675 | — ,10 | |
| 1195 . II | 51 | ——— | ——— | 4=54,27 | + 4 9 54,27 | 16,946 | + ,10 | |
| 1214 . II | 10 2 | 34 Leonis | 5=41,78 | 3=41,38 | +14 9 41,63 | 17,465 | — ,10 | |
| 1256 . III | 16 | ——— | 1=20,94 | 3=20,23 | + 9 36 20,41 | 18,058 | — ,21 | |
| 1261 . II | 29 | 37 Leo. Min. $l$ | 13=31,84 | 3=31,88 | +32 49 31,85 | 18,488 | — ,07 | I have re-observed these stars merely with a view to determine their *difference* of Declination.* |
| 1274 . II | 36 | 42 ——— ——— $n$ | 21=41,51 | 3=43,18 | +31 32 41,72 | 18,723 | + ,01 | |
| 1278 . II | 37 | 51 Leonis $m^2$ | ——— | 3=12,60 | +19 45 12,60 | 18,750 | — ,17 | |
| 1279 . II | 37 | 52 Leonis $k$ | ——— | 3=28,09 | +15 3 28,09 | 18,755 | — ,22 | |
| 1288 . II | 42 | 41 Sextantis $r$ | 5=47,46 | 3=49,80 | — 8 1 48,32 | 18,886 | — ,03 | |
| 1289 . II | 43 | 46 Leo. Min. $o$ | 12=45,53 | 3=44,65 | +35 5 45,35 | 18,944 | — ,40 | Differs 5″,4 from G. C. |
| 1329 . III | 55 | 216 Ursæ Maj. | 3=22,48 | 1=22,94 | +39 7 22,60 | 19,256 | — ,04 | |
| 1353 . III | 11 7 | 322 Leonis | 4=26,85 | 3=26,84 | +13 30 26,85 | 19,520 | — ,12 | |
| 1375 . III | 18 | Leonis | ——— | 2=57,46 | +13 53 57,46 | 19,718 | + ,09 | |
| 1407 . III | 31 | Hyd. & Crat. | 1= 8,11 | 3=10,87 | —12 16 10,18 | 19,887 | — ,15 | |
| 1416 . III | 34 | Hydræ V | 4=15,26 | 4=17,54 | —31 35 16,40 | 19,912 | — ,02 | |
| 775 . IV | 34 | ——— | ——— | 3=31,24 | —31 34 31,24 | 19,913 | — ,01 | |
| 1371 . II | 37 | 3 Virginis $\nu$ | 5=57,62 | 3=55,17 | + 7 26 56,70 | 19,943 | — ,12 | |
| 1437 . III | 46 | 338 Ursæ Maj. *var.* | ——— | 4=57,04 | +47 22 57,04 | 20,010 | + ,05 | |
| 1386 . II | 52 | 8 Virginis $\pi$ | 16=44,70 | 4=45,99 | + 7 31 44,96 | 20,031 | — ,04 | |
| 1426 . II | 12 17 | Crucis $\alpha^1$ | ——— | 3=42,94 | —62 12 42,94 | 19,987 | ——— | |
| 808 . IV | 19 | Virginis | ——— | 3=31,77 | + 5 19 31,77 | 19,971 | — ,20 | A wrong star appears to have been observed in 1832. |
| 1436 . II | 21 | 18 Comæ Ber. | 4=58,17 | 5=53,95 | +25 0 53,95 | 19,959 | — ,27 | |
| 1445 . II | 25 | 20 Virginis | 4=10,62 | 3= 8,18 | +11 12 9,57 | 19,929 | + ,05 | |
| 1460 . II | 30 | 26 ——— $\chi$ | ——— | 3=28,88 | — 7 5 28,88 | 19,866 | — ,07 | |
| 1599 . III | 52 | Centauri | ——— | 2=39,72 | —22 36 39,72 | 19,524 | —1,93 | Probably an error of 1′ in Piazzi or in this result. |
| 1634 . III | 13 8 | 201 Comæ Ber. | ——— | 2=55,43 | +20 40 55,43 | 19,144 | + ,05 | |
| 1751 . III | 59 | 634 Virginis | ——— | 3=37,75 | —18 27 37,75 | 17,349 | — ,01 | Piazzi has assigned the 9th mag. to this star whereas it is now of the 7th. |
| 1795 . III | 14 18 | Bootis | ——— | 5= 2,71 | +19 57 2,71 | 16,482 | — ,18 | |
| 1664 . II | 34 | 32 ——— | ——— | 4=18,65 | +12 22 18,65 | 15,709 | — ,05 | |
| 1667 . II | 36 | 10 Hydræ Con. | ——— | 2=33,56 | —24 44 33,56 | 15,566 | — ,22 | |
| 1668 . II | 37 | Lybræ | ——— | 2=33,63 | —20 28 33,63 | 15,545 | — ,16 | |
| 1669 . II | 37 | 5 ——— $\rho$ | ——— | 2=51,19 | —14 45 51,19 | 15,543 | — ,09 | |
| 1676 . II | 38 | 13 Hydræ Con. | ——— | 3=15,87 | —25 57 15,87 | 15,463 | — ,10 | |
| 1680 . II | 41 | 8 Libræ $\alpha^1$ | ——— | 4=41,92 | —15 18 41,92 | 15,280 | — ,21 | |
| 1685 . II | 43 | Bootis | ——— | 5=55,00 | +29 17 55,00 | 15,204 | ,00 | |
| 1695 . II | 49 | 15 Hydræ $z$ | ——— | 5=37,21 | —26 59 37,21 | 14,859 | — ,07 | |
| 1696 . II | 49 | 1 Serpentis | ——— | 4=50,40 | + 1 29 50,40 | 14,845 | — ,13 | |
| 1703 . II | 54 | Libræ | ——— | 4=20,86 | — 7 11 20,86 | 14,571 | — ,07 | |
| 1879 . III | 56 | 33 Ursæ Min. | ——— | 5=20,83 | +75 32 20,83 | 14,410 | — ,05 | |
| 1898 . III | 15 5 | 97 Libræ | 4=31,59 | 3=32,28 | —17 48 31,89 | 13,835 | + ,02 | |
| 1740 . II | 11 | 28 ——— $v$ | ——— | 6=26,04 | —17 33 26,04 | 13,458 | — ,15 | |
| 1741 . II | 12 | 29 ——— $o^1$ | ——— | 5= 9,63 | —14 57 9,63 | 13,441 | — ,21 | |
| 1773 . II | 28 | Libræ | ——— | 5=33,38 | —27 39 33,38 | 12,343 | — ,02 | |
| 1775 . II | 28 | 16 Serpentis | ——— | 5=48,19 | +10 33 48,19 | 12,317 | — ,15 | |
| 1776 . II | 28 | 18 ——— $\tau^2$ | ——— | 5= 2,88 | +16 40 2,88 | 12,294 | + ,01 | |
| 1812 . II | 45 | 3 Scorpii $A^2$ | ——— | 5= 8,51 | —24 45 8,51 | 11,174 | — ,24 | |
| 1815 . II | 45 | 4 ——— | ——— | 5=35,10 | —25 46 35,10 | 11,117 | — ,13 | |

* The difference of Declination here found = 1° 16′ 50″,1 from obs. on the same evening.
Do. from the Greenwich Catalogue = 1° 16′ 55″,3
——— ———Piazzi's Catalogue = 1° 16′ 52″,7

| Reference. No. | Vol. | A. R. | | Names. | | Mean Decn. Jan. 1, 1836.—from former obs. | Mean Decn. Jan. 1, 1836.—from present obs. | Concluded Mean Decn, Jan. 1, 1836. | Annual Precession. | P. M. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | H. M. | | | | ″ | ″ | ° ′ ″ | ″ | ″ | |
| 1965 of | III | 15 46 | | Lupi | ξ | 3=40,01 | 2=39,40 | —33 28 39,77 | —11,014 | + ,05 | |
| 1990 . | III | 57 | | ——— | | 4=39,58 | 2=43,00 | —38 38 40,72 | 10,187 | — ,25 | |
| 1046 . | IV | 16 1 | | Serpentis | | 4=46,53 | 1=46,92 | + 5 50 46,61 | 9,966 | — ,07 | |
| 1058 . | IV | 11 | | Scorpii | | 4=55,50 | 1=57,74 | —19 42 55,95 | 9,167 | — ,09 | |
| 2072 . | III | 34 | | ——— | | ——— | 5=39,59 | —22 48 39,59 | 7,333 | ,00 | |
| 1090 . | IV | 42 | | Scorpii | | ——— | 3=37,89 | —41 32 37,89 | 6,603 | — ,11 | This star belongs to Vol. III, but was introduced through mistake into Vol. IV. |
| 2097 . | III | 42 | 150 | ——— | | 3=58,38 | 2=61,00 | —41 33 59,43 | 6,614 | + ,10 | |
| 1942 . | II | 50 | | Ophiuchi | | 4= 6,33 | 2= 4,98 | —17 59 5,88 | 6,040 | — ,06 | |
| 2127 . | III | 56 | 117 | ——— | | 3=37,00 | 5=37,72 | +13 50 37,45 | 5,502 | — ,19 | |
| 2142 . | III | 17 1 | | Herculis | | ——— | 5=11,26 | +27 19 11,26 | 5,052 | + ,03 | |
| 1973 . | II | 7 | 39 | Ophiuchi | o | ——— | 6= 0,57 | —24 6 0,57 | 4,538 | — ,06 | |
| 1974 . | II | 7 | | ——— | | ——— | 4=59,97 | —23 52 59,97 | 4,531 | — ,08 | |
| 1980 . | II | 11 | 66 | Herculis | ω | ——— | 4=55,38 | +11 2 55,38 | 4,285 | — ,12 | |
| 1985 . | II | 11 | 53 | Serpentis | ν | ——— | 3=22,59 | —12 40 22,59 | 4,229 | — ,02 | |
| 1991 . | II | 15 | 33 | Scorpii | | ——— | 2= 7,21 | —24 5 7,21 | 3,934 | + ,02 | |
| 1996 . | II | 17 | 73 | Herculis | | ——— | 2= 6,07 | +23 7 6,07 | 3,739 | — ,04 | |
| 1997 . | II | 18 | 47 | Ophiuchi | | ——— | 2=38,93 | —12 21 38,93 | 3,695 | — ,17 | |
| 1998 . | II | 18 | | ——— | | ——— | 2= 9,66 | — 4 56 9,66 | 3,686 | — ,21 | |
| 2014 . | II | 25 | 54 | ——— | | ——— | 3=45,74 | +13 16 45,74 | 2,917 | — ,07 | |
| 2193 . | III | 27 | 245 | ——— | | 1= 4,81* | 2= 5,17 | +13 14 5,06 | 2,824 | —1,78 | Piazzi's Declination is probably 1′ too large, in which case P. M.=—0″,11 |
| 2015 . | II | 27 | 53 | Ophiuchi | f | ——— | 3= 8,77 | + 9 42 8,77 | 2,915 | — ,19 | |
| 2018 . | II | 28 | | Serpentis | | ——— | 2=50,14 | —15 27 50,14 | 2,802 | — ,12 | |
| 2024 . | II | 29 | | Sagittarii | | ——— | 2= 1,02 | —32 7 1,02 | 2,708 | + ,07 | |
| 1170 . | IV | 30 | | Ophiuchi | | 4=46,71 | 1=46,76 | +11 45 46,72 | 2,651 | + ,03 | |
| 2026 . | II | 31 | 79 | Herculis | | ——— | 2=44,41 | +24 24 44,41 | 2,572 | — ,12 | |
| 2209 . | III | 34 | 142 | Draconis | | ——— | 2=48,06 | +62 33 48,06 | 2,286 | — ,01 | |
| 2033 . | II | 34 | | Ophiuchi | | ——— | 1=46,94 | —22 6 46,94 | 2,256 | — ,06 | |
| 2034 . | II | 34 | | ——— | | ——— | 1= 5,22 | +16 2 5,22 | 2,239 | + ,17 | |
| 2214 . | III | 35 | | Draconis | | ——— | 1=14,11 | +68 13 14,11 | 2,170 | — ,06 | |
| 1185 . | IV | 35 | 83 | Herculis | | 3= 4,61 | 3= 5,50 | +24 39 5,06 | 2,101 | — ,18 | |
| 2221 . | III | 38 | | Ophiuchi | | ——— | 1=10,71 | + 5 46 10,71 | 1,915 | + ,17 | |
| 1191 . | IV | 38 | | ——— | | 2=22,99 | 1=23,14 | +25 47 23,04 | 1,944 | — ,04 | |
| 2222 . | III | 38 | | ——— | | ——— | 2=37,29 | + 5 50 37,29 | 1,851 | — ,07 | |
| 2042 . | II | 38 | | Sagittarii | | ——— | 1=17,29 | —31 38 17,29 | 1,909 | — ,03 | |
| 2226 . | III | 41 | | Ophiuchi | | ——— | 1=44,07 | + 5 45 44,07 | 1,671 | — ,11 | |
| 2229 . | III | 41 | | Telescopii | | 3=47,19 | 3=44,78 | —34 44 45,98 | 1,613 | — ,03 | |
| 2231 . | III | 42 | 339 | Herculis | | ——— | 2=47,14 | +19 18 47,14 | 1,590 | ,00 | |
| 2235 . | III | 43 | 290 | Ophiuchi | | ——— | 2=14,46 | —19 4 14,46 | 1,497 | — ,11 | |
| 2237 . | III | 43 | | Tauri Pon. | | ——— | 1=44,30 | + 5 16 44,30 | 1,468 | — ,14 | |
| 2239 . | III | 44 | 297 | Ophiuchi | | ——— | 1= 8,85 | + 1 21 8,85 | 1,357 | ,00 | |
| 2248 . | III | 46 | 302 | Ophiuchi | | ——— | 1=54,01 | —18 45 54,01 | 1.183 | — ,01 | |
| 2252 . | III | 47 | 357 | Herculis | | ——— | 2=52,97 | +24 48 52,97 | 1,136 | — ,09 | |
| 2254 . | III | 48 | 7 | Tauris Pon. | | ——— | 1= 5,91 | + 0 42 5,91 | 1,037 | — ,03 | |
| 2257 . | III | 51 | 172 | Serpentis | | ——— | 1=56,00 | — 4 47 56,00 | 0,781 | — ,23 | |
| 2062 . | II | 51 | 6 | Sagittarii | | ——— | 1=36,15 | —17 8 36,15 | 0,741 | — ,08 | |
| 2063 . | II | 52 | | Sagittarii | | ——— | 1= 3,50 | —22 46 3,50 | 0,734 | — ,02 | |
| 2261 . | III | 52 | 19 | ——— | | ——— | 1=41,60 | —22 53 41,60 | 0,630 | + ,02 | |
| 2067 . | II | 53 | 7 | ——— | a | ——— | 2=21,94 | —24 16 21,94 | 0,663 | — ,05 | |
| 2074 . | II | 53 | 9 | ——— | | ——— | 2=21,34 | —24 21 21,34 | 0,573 | — ,02 | |
| 2078 . | II | 55 | | ——— | | ——— | 2=55,34 | —24 23 55,34 | 0,460 | — ,06 | |

* See errata.

| Reference. No. Vol. | A. R. | Names. | | Mean Decn. Jan. 1, 1836.—from former obs. | Mean Decn. Jan. 1, 1836.—from present obs. | Concluded Mean Decn. Jan. 1, 1836. | Annual Precession. | P. M. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|
| | H. M. | | | ″ | ″ | ° ′ ″ | ″ | ″ | |
| 2269 of III | 17 56 | Ursæ Min. | | —— | 2=33,66 | +74 35 33,66 | — 0,338 | — ,19 | Piazzi gives P. M. = —0″,30 |
| 2276 . III | 59 | Sagittarii | | —— | 3=17,25 | —24 0 17,25 | 0,041 | + ,02 | |
| 2278 . III | 18 0 | 406 Herculis | | —— | 2=51,34 | +42 56 51,34 | — 0,006 | — ,07 | |
| 2283 . III | 1 | —— | $i$ | —— | 2=42,32 | +26 4 42,32 | + 0,117 | + ,30 | |
| 2305 . III | 15 | 444 —— | | 4=—— | 3= 7,67 | +29 47 7,67 | 1,287 | + ,08 | |
| 2118 . II | 15 | 21 Sagittarii | | —— | 3=20,18 | —20 37 20,18 | 1,330 | — ,11 | Differs 43″ from A. S. C. and too faint for the star intended—* |
| 2123 . II | 18 | Sagittarii | | —— | 1=28,75 | —17 47 28,75 | 1,574 | —— | |
| 2126 . II | 20 | —— | $v^1$ | 5=18,49 | 1=16,11 | —33 5 18,10 | 1,741 | — ,09 | |
| 2127 . II | 20 | Clypei Sob. | | —— | 4=59,30 | —14 40 59,30 | 1,759 | —— | |
| 2132 . II | 22 | Sagittarii | | —— | 3=25,31 | —18 30 25,31 | 1,875 | — ,07 | |
| 2318 . III | 22 | Cor. Aust. | $\chi$ | 3=59,59 | 3= 0,19 | —38 49 59,89 | 1,950 | + ,05 | |
| 2135 . II | 23 | Sagittarii | $v^2$ | —— | 3=44,45 | —33 7 44,45 | 1,991 | — ,02 | |
| 2139 . II | 23 | 61 Serpentis | $e$ | —— | 3=46,70 | — 1 6 46,70 | 2,024 | — ,06 | |
| 2140 . II | 23 | Sagittarii | | —— | 2=48,73 | —18 28 48,73 | 2,026 | — ,02 | |
| 2150 . II | 28 | —— | | —— | 2=31,87 | —21 31 31,87 | 2,419 | — ,16 | |
| 2151 . II | 28 | Clypei Sob. | | —— | 4=45,74 | —17 21 45,74 | 2,441 | ,00 | |
| 2152 . II | 28 | Sagittarii | | —— | 3= 9,31 | —23 38 9,31 | 2,457 | + ,02 | |
| 2153 . II | 28 | Herculis | | —— | 2=22,89 | +23 28 22,89 | 2,480 | — ,51 | |
| 2157 . II | 32 | 26 Sagittarii | | —— | 4=39,82 | —23 58 39,82 | 2,745 | — ,02 | |
| 2202 . II | 54 | —— | S | —— | 3=45,03 | —31 16 45,03 | 4,636 | — ,07 | |
| 2212 . II | 58 | Sagittarii | | —— | 3=51,14 | —28 52 51,14 | 4,917 | + ,07 | |
| 2215 . II | 58 | —— | | —— | 3=24,09 | —24 54 24,09 | 5,006 | — ,11 | |
| 2217 . II | 58 | —— | | —— | 3=24,14 | —19 32 24,41 | 5,042 | —— | |
| 2248 . II | 19 12 | 44 —— | $\rho^1$ | —— | 1=51,52 | —18 8 51,52 | 6,178 | + ,12 | This star has been looked for frequently but not observed yet. |
| 2249 . II | 12 | 27 Aquilæ | $d$ | —— | —— | — 1 13 —— | 6,178 | | |
| 2250 . II | 12 | 45 Sagittarii | $\rho^2$ | —— | 1=16,82 | —18 36 16,82 | 6,189 | — ,08 | |
| 2251 . II | 12 | 46 —— | $v$ | —— | 1=21,59 | —16 15 21,59 | 6,192 | — ,09 | |
| 2261 . II | 16 | —— | O | —— | 1=38,77 | —30 3 38,77 | 6,540 | — ,17 | |
| 2262 . II | 17 | —— | | —— | 1=20,49 | —15 22 20,49 | 6,567 | — ,17 | |
| 2263 . II | 17 | 2 Sagittæ | | —— | 2=31,32 | +16 37 31,32 | 6,585 | + ,11 | |
| 2264 . II | 17 | Sagittarii | | —— | 2=13,87 | —14 52 13,87 | 6,588 | — ,14 | |
| 2267 . II | 18 | 2 Cygni | $\alpha$ | —— | 1=17,51 | +29 18 17,51 | 6,642 | — ,08 | |
| 2427 . III | 20 | 19 —— | | 3= 7,05 | 3=10,82 | +49 57 8,93 | 6,784 | — ,09 | |
| 2457 . III | 35 | Draconis | | 2= | 2= 1,67 | +69 26 1,67 | 8,056 | + ,38 | |
| 2465 . III | 38 | Aquilæ | $v$ | 2=18,52 | 2=17,18 | + 7 13 17,85 | 8,300 | — ,06 | |
| 2264 . III | 38 | 73 Cygni | | 3=46,04 | 3=46,52 | +50 8 46,28 | 8,274 | — ,28 | |
| 2326 . II | 42 | 51 Aquilæ | D | —— | 3=23,97 | —11 10 23,97 | 8,582 | — ,08 | |
| 2478 . III | 45 | —— | | 3=44,13 | 2=46,30 | +11 13 45,00 | 8,828 | — ,27 | |
| 2482 . III | 46 | 187 —— | | 3=50,00 | 1=51,01 | — 8 38 50,25 | 8,938 | + ,01 | |
| 2483 . III | 47 | Sagittæ | | 3=54,53 | 2=49,91 | +19 54 52,68 | 8,969 | — ,16 | |
| 2494 . III | 52 | Sagittarii | H | 3= 9,06 | 2= 9,39 | —38 23 9,19 | 9,476 | — ,08 | |
| 2510 . III | 59 | Draconis | $e^1$ | —— | 4=47,85 | +64 21 47,85 | 10,001 | + ,02 | |
| 2528 . III | 20 6 | —— | | 3=50,69 | 2=51,68 | +63 13 51,09 | 10,373 | ,00 | These observations were omitted in the Catalogue. |
| 1519 . IV | 6 | Aquilæ | | —— | 2=28,54 | +15 36 28,54 | 10,434 | + ,15 | |
| 2539 . III | 11 | Sagittarii | I | —— | 3=30,89 | —42 33 30,89 | 10,882 | — ,18 | |
| 2567 . III | 25 | Cygni | | 4=18,14 | 3=16,44 | +48 43 17,41 | 11,776 | — ,02 | |
| 2420 . II | 27 | 46 —— | $\omega^3$ | 2=13,46 | 1=11,70 | +48 40 12,87 | 11,926 | + ,04 | |
| 2575 . III | 28 | Ursæ Min. | $\lambda$ | 3=—— | 1=57,35 | +88 48 57,35 | 11,852 | + ,06 | |
| 2438 . II | 31 | 28 Vulpeculæ | | —— | 2=43,59 | +23 32 43,59 | 12,279 | + ,07 | |
| 2589 . III | 34 | Delphini | | 3=44,32 | 1=45,07 | +13 13 44,51 | 12,482 | — ,03 | |

* A star of the 6th Magnitude near this has been observed, Declination —17° 53′ 30″,09.

| Reference. No. Vol. | A. R. | Names. | | Mean Decn. Jan. 1, 1836,—from former obs. | Mean Decn. Jan. 1, 1836,—from present obs. | Concluded Mean Decn. Jan. 1, 1836. | Annual Precession. | P. M. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|
| | H. M. | | | ″ | ″ | ° ′ ″ | ″ | ″ | |
| 1656 of IV | 20 44 | Cephei | | —— | 2=43,74 | +44 58 43,74 | +13,102 | +1,23 | |
| 2495 . II | 54 | 2 Equulei | λ | 5=25,08 | 3=24,46 | + 6 32 24,85 | 13,785 | — ,02 | |
| 2649 . III | 59 | Vulpeculæ | | —— | 1=36,31 | +22 55 36,31 | 14,164 | —— | |
| 2664 . III | 21 6 | Aquarii | | —— | 1=40,14 | — 7 45 40,14 | 14,563 | — ,03 | |
| 2683 . III | 19 | —— | | 4=21,82 | 2=22,84 | —12 47 22,16 | 15,226 | — ,16 | |
| 2688 . III | 19 | Cephei | | —— | 2=18,87 | +57 14 18,87 | 15,313 | + ,08 | |
| 2691 . III | 21 | Vulpeculæ | $z$ | 4=53,44 | 1=52,82 | +26 53 53,31 | 15,387 | — ,01 | |
| 2706 . III | 27 | Aquarii | | —— | 1= 3,26 | + 0 15 3,26 | 15,751 | — ,19 | |
| 2565 . II | 29 | 4 Pegasi | $T^1$ | 6= 2,89 | 2= 3,07 | + 5 2 2,98 | 15,902 | — ,14 | Differs 9″ from A. S. C. |
| 2568 . II | 32 | 42 Capricorni | $d^1$ | —— | 3=32,16 | —14 46 32,16 | 16,022 | — ,41 | Piazzi gives P. M. —0″,38. |
| 2757 . III | 54 | Piscis Aust. | | —— | 3=31,94 | —30 41 31,94 | 17,090 | — ,16 | |
| 2775 . III | 22 4 | Cephei | | 2=59,22 | 1=56,61 | +58 2 58,35 | 17,510 | + ,05 | |
| 2774 . III | 4 | —— | | 2=29,65 | 2=28,69 | +58 29 29,17 | 17,496 | ,00 | |
| 2648 . II | 5 | Gruis | $\mu^1$ | 5=35,02 | 3=31,12 | —42 9 33,56 | 17,586 | — ,08 | |
| 2678 . II | 17 | 53 Aquarii | $E^2$ | —— | 4=22,19 | —17 34 22,19 | 18,066 | + ,06 | |
| 2689 . II | 22 | 17 Piscis Aust. | $\beta$ | 5= 1,98 | 1= 0,27 | —33 11 1,70 | 18,232 | — ,02 | |
| 2699 . II | 27 | 61 Aquarii | L | 5=13,93 | 1=12,21 | —18 18 13,64 | 18,402 | — ,09 | |
| 2825 . III | 27 | Piscis Aust. | $\sigma$ | 4=28,83 | 2=29,80 | —32 30 29,15 | 18,434 | + ,03 | |
| 2833 . III | 29 | 7 Andromedæ | | 4=15,00 | 4=14,06 | +38 47 14,53 | 18,475 | — ,07 | |
| 2850 . III | 37 | 222 Aquarii | | 4=14,99 | 1=15,66 | —10 30 15,12 | 18,741 | — ,13 | |
| 2852 . III | 40 | Aquarii | | 4=45,87 | 2=45,06 | — 5 4 45,60 | 18,823 | — ,51 | |
| 2872 . III | 51 | —— | | 4=28,16 | 2=25,15 | —27 1 27,16 | 19,157 | — ,11 | |
| 2885 . III | 59 | —— | | —— | 4=12,52 | —29 42 12,52 | 19,353 | + ,36 | |
| 2784 . II | 23 12 | 7 Piscium | $b$ | 5=13,24 | 2=12,84 | + 4 29 13,08 | 19,599 | — ,08 | |

One remark is here necessary with regard to the foregoing Catalogue,—namely, that the precessions in Declination are those copied from the Vols. already printed; and consequently pertain to the epochs for which those tables were constructed, and *not* to the year 1836, to which the places of the stars are reduced: with a view to remedy this defect, as well as to supply an every day want of the practical Astronomer, I have computed the following tables.

## *A Table of the annual variation of the Precession in Right Ascension in time.*

*arg at top the Declination and at the side the A. R. of the Star.*

| Declin. *North.* | 0° | 30° | 50° | 60° | 65° | 70° | 75° | 78° | 80° | 82° | Declin. *South.* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| H. M. | *s.* | *s.* | *s.* | *s.* | *s.* | *s.* | *s.* | *s.* | *s.* | *s.* | |
| O 0 | ,0000 | +,0001 | +,0003 | +,0004 | +,0006 | +,0008 | +,0011 | +,0014 | +,0017 | +,0021 | XII 0 |
| 30 | , 00 | , 02 | , 04 | , 06 | , 08 | , 11 | , 16 | , 22 | , 28 | , 38 | 30 |
| I 0 | , 00 | , 02 | , 04 | , 07 | , 10 | , 13 | , 20 | , 29 | , 37 | , 54 | XIII 0 |
| 30 | , 00 | , 02 | , 05 | , 07 | , 11 | , 15 | , 22 | , 34 | , 45 | , 66 | 30 |
| II 0 | , 00 | , 02 | , 05 | , 07 | , 12 | , 16 | , 25 | , 37 | , 52 | , 76 | XIV 0 |
| 30 | , 00 | , 03 | , 05 | , 08 | , 12 | , 17 | , 27 | , 39 | , 54 | , 80 | 30 |
| III 0 | ,0000 | +,0003 | +,0005 | +,0008 | +,0012 | +,0017 | +,0027 | +,0040 | +,0055 | +,0081 | XV 0 |
| 30 | , 00 | , 02 | , 05 | , 08 | , 11 | , 16 | , 26 | , 38 | , 52 | , 78 | 30 |
| IV 0 | , 00 | , 02 | , 04 | , 07 | , 10 | , 15 | , 21 | , 33 | , 45 | , 68 | XVI 0 |
| 30 | , 00 | , 01 | , 03 | , 05 | , 08 | , 12 | , 17 | , 26 | , 37 | , 54 | 30 |
| V 0 | , 00 | , 01 | , 02 | , 03 | , 05 | , 07 | , 12 | , 18 | , 26 | , 38 | XVII 0 |
| 30 | , 00 | , 00 | , 01 | , 01 | , 03 | , 04 | , 07 | , 09 | , 13 | , 20 | 30 |
| VI 0 | ,0000 | —,0000 | —,0000 | —,0000 | —,0000 | —,0000 | —,0000 | —,0000 | —,0000 | —,0000 | XVIII 0 |
| 30 | , 00 | , 00 | , 01 | , 02 | , 03 | , 04 | , 07 | , 09 | , 13 | , 20 | 30 |
| VII 0 | , 00 | , 01 | , 02 | , 04 | , 05 | , 08 | , 12 | , 18 | , 26 | , 38 | XIX 0 |
| 30 | , 00 | , 02 | , 03 | , 05 | , 07 | , 11 | , 17 | , 26 | , 37 | , 54 | 30 |
| VIII 0 | , 00 | , 02 | , 04 | , 07 | , 09 | , 14 | , 21 | , 33 | , 45 | , 68 | XX 0 |
| 30 | , 00 | , 03 | , 05 | , 08 | , 11 | , 16 | , 26 | , 38 | , 52 | , 78 | 30 |
| IX 0 | ,0000 | —,0003 | —,0005 | —,0008 | —,0012 | —,0017 | —,0027 | —,0040 | —,0055 | —,0081 | XXI 0 |
| 30 | , 00 | , 03 | , 05 | , 01 | , 12 | , 17 | , 27 | , 39 | , 54 | , 80 | 30 |
| X 0 | , 00 | , 02 | , 04 | , 07 | , 11 | , 17 | , 25 | , 37 | , 52 | , 76 | XXII 0 |
| 30 | , 00 | , 02 | , 04 | , 07 | , 10 | , 15 | , 22 | , 34 | , 45 | , 66 | 30 |
| XI 0 | , 00 | , 02 | , 04 | , 06 | , 09 | , 13 | , 20 | , 29 | , 37 | , 54 | XXIII 0 |
| 30 | , 00 | , 02 | , 03 | , 05 | , 07 | , 10 | , 16 | , 22 | , 28 | , 38 | 30 |
| XII 0 | ,0000 | —,0001 | —,0002 | —,0003 | —,0005 | —,0007 | —,0011 | —,0014 | —,0017 | —,0021 | O 0 |
| 30 | , 00 | —, 01 | —, 01 | —, 02 | —, 03 | —, 04 | —, 06 | —, 06 | —, 06 | —, 05 | 30 |
| XIII 0 | , 00 | —, 00 | , 00 | , 00 | , 00 | , 00 | , 00 | +, 01 | +, 04 | +, 11 | I 0 |
| 30 | , 00 | +, 00 | +, 00 | +, 01 | +, 02 | +, 02 | +, 03 | +, 07 | +, 14 | +, 26 | 30 |
| XIV 0 | , 00 | +, 00 | +, 01 | +, 02 | +, 03 | +, 03 | +, 06 | +, 13 | +, 21 | +, 38 | II 0 |
| 30 | , 00 | +, 00 | +, 01 | +, 02 | +, 03 | +, 04 | +, 07 | +, 16 | +, 24 | +, 47 | 30 |
| XV 0 | ,0000 | +,0001 | +,0002 | +,0003 | +,0004 | +,0005 | +,0009 | +,0017 | +,0026 | +,0050 | III 0 |
| 30 | , 00 | , 01 | , 02 | , 03 | , 05 | , 06 | , 10 | , 17 | , 27 | , 49 | 30 |
| XVI 0 | , 00 | , 01 | , 02 | , 03 | , 05 | , 07 | , 11 | , 18 | , 28 | , 47 | IV 0 |
| 30 | , 00 | , 01 | , 02 | , 03 | , 04 | , 06 | , 10 | , 16 | , 24 | , 39 | 30 |
| XVII 0 | , 00 | , 00 | , 01 | , 02 | , 03 | , 04 | , 07 | , 12 | , 17 | , 28 | V 0 |
| 30 | , 00 | , 00 | , 01 | , 01 | , 02 | , 02 | , 04 | , 06 | , 09 | , 14 | 30 |
| XVIII 0 | ,0000 | —,0000 | —,0000 | —,0000 | —,0000 | —,0000 | —,0000 | —,0000 | —,0000 | —,0000 | VI 0 |
| 30 | , 00 | , 00 | , 01 | , 01 | , 02 | , 02 | , 04 | , 06 | , 09 | , 14 | 30 |
| XIX 0 | , 00 | , 00 | , 01 | , 02 | , 03 | , 04 | , 07 | , 12 | , 17 | , 28 | VII 0 |
| 30 | , 00 | , 01 | , 02 | , 03 | , 05 | , 06 | , 10 | , 16 | , 24 | , 39 | 30 |
| XX 0 | , 00 | , 01 | , 02 | , 03 | , 05 | , 06 | , 10 | , 18 | , 28 | , 47 | VIII 0 |
| 30 | , 00 | , 01 | , 02 | , 03 | , 05 | , 06 | , 10 | , 17 | , 27 | , 49 | 30 |
| XXI 0 | ,0000 | —,0001 | —,0002 | —,0003 | —,0004 | —,0005 | —,0009 | —,0017 | —,0026 | —,0050 | IX 0 |
| 30 | , 00 | , 01 | , 02 | , 03 | , 04 | , 05 | , 08 | , 16 | , 24 | , 47 | 30 |
| XXII 0 | , 00 | , 00 | , 01 | , 02 | , 03 | , 04 | , 06 | , 13 | , 21 | , 38 | X 0 |
| 30 | , 00 | , 00 | —, 01 | , 01 | , 02 | , 02 | , 04 | , 07 | , 14 | , 26 | 30 |
| XXIII 0 | , 00 | , 00 | , 00 | , 00 | , 00 | , 00 | , 00 | , 01 | , 04 | , 11 | XI 0 |
| 30 | , 00 | +, 00 | +, 01 | +, 02 | +, 03 | +, 04 | +, 06 | +, 06 | +, 06 | +, 05 | 30 |

## *A Table of the annual variation of the Precession in Declination.*

*arg at top the Declination, at the side the A. R. of the Star.*

| Declin. *North.* | 0° | 30° | 50° | 60° | 65° | 70° | 75° | 78° | 80° | 82° | Declin. *South.* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| H. M. | *s.* | *s.* | *s.* | *s.* | *s.* | *s.* | *s.* | *s.* | *s.* | *s* | |
| XII 0 | +,0000— | +,0000— | +,0000— | +,0000— | +,0000— | +,0000— | +,0000— | +,0000— | +,0000— | +,0000— | O 0 |
| 30 | , 06 | , 05 | , 05 | , 05 | , 05 | , 05 | , 05 | +, 04— | +, 04— | +, 03— | 30 |
| XIII 0 | , 11 | , 10 | , 10 | , 09 | , 08 | , 08 | , 07 | +, 05— | +, 04— | , 02 | I 0 |
| 30 | , 17 | , 15 | , 14 | , 12 | , 10 | , 09 | , 06 | +, 03— | , 00 | —, 03+ | 30 |
| XIV 0 | , 22 | , 20 | , 17 | , 14 | , 11 | , 09 | , 04 | —, 01+ | —, 06+ | —, 12+ | II 0 |
| 30 | , 27 | , 23 | , 19 | , 15 | , 11 | , 08 | , 00 | —, 07+ | — 14+ | —, 24+ | 30 |
| XV 0 | +,0032— | +,0026— | +,0020— | +,0015— | +,0011— | +,0005— | —,0005+ | —,0014+ | —,0023+ | —,0037+ | III 0 |
| 30 | , 36 | , 28 | , 21 | , 14 | , 10 | +, 02— | , 11 | , 22 | , 34 | , 51 | 30 |
| XVI 0 | , 39 | , 30 | , 21 | , 13 | , 09 | —, 01+ | , 16 | , 30 | , 45 | , 65 | IV 0 |
| 30 | , 41 | , 32 | , 21 | , 13 | , 07 | , 04 | , 20 | , 36 | , 54 | , 78 | 30 |
| XVII 0 | , 43 | , 33 | , 22 | , 12 | , 04 | , 07 | , 24 | , 41 | , 60 | , 86 | V 0 |
| 30 | , 44 | , 33 | , 22 | , 12 | , 04 | , 08 | , 26 | , 44 | , 63 | , 92 | 30 |
| XVIII 0 | +,0045— | +,0033— | +,0022— | +,0012— | +,0003— | —,0009+ | —,0028+ | —,0047+ | —,0066+ | —,0093+ | VI 0 |
| 30 | , 44 | , 33 | , 22 | , 11 | , 03 | , 08 | , 26 | , 44 | , 63 | , 92 | 30 |
| XIX 0 | , 43 | , 33 | , 22 | , 12 | , 04 | , 07 | , 24 | , 41 | , 60 | , 86 | VII 0 |
| 30 | , 41 | , 32 | , 21 | , 12 | , 06 | , 04 | , 20 | , 36 | , 54 | , 78 | 30 |
| XX 0 | , 39 | , 30 | , 21 | , 13 | , 09 | , 01 | , 16 | , 30 | , 45 | 65 | VIII 0 |
| 30 | , 36 | , 28 | , 21 | , 14 | , 10 | , 02 | , 11 | , 22 | , 34 | , 51 | 30 |
| XXI 0 | +,0032— | +,0026— | +,0020— | +,0019— | +,0011— | +,0005— | —,0005+ | —,0014+ | —,0023+ | —,0037+ | IX 0 |
| 30 | , 27 | , 23 | , 19 | , 14 | , 11 | , 08 | , 00 | —, 07+ | —, 14+ | —, 24+ | 30 |
| XXII 0 | , 22 | , 20 | , 17 | , 14 | , 11 | , 09 | +, 04— | —, 01+ | —, 06+ | —, 12+ | X 0 |
| 30 | , 17 | , 15 | , 14 | , 12 | , 10 | , 08 | , 06 | +, 03— | , 00 | —, 03+ | 30 |
| XXIII 0 | , 11 | , 10 | , 10 | , 09 | , 08 | , 08 | , 07 | +, 05— | +, 04— | +, 02— | XI 0 |
| 30 | , 06 | , 05 | , 05 | , 05 | , 05 | , 05 | , 05 | +, 04— | +, 04— | +, 03— | 30 |
| O 0 | —,0000+ | —,0000+ | —,0000+ | —,0000+ | —,0000+ | —,0000+ | —,0000+ | —,0000+ | —,0000+ | —,0000+ | XII 0 |
| 30 | , 06 | , 06 | , 06 | , 06 | , 06 | , 07 | , 07 | , 08 | , 08 | , 09 | 30 |
| I 0 | , 11 | , 12 | , 13 | , 14 | , 14 | , 15 | , 16 | , 17 | , 19 | , 21 | XIII 0 |
| 30 | , 17 | , 18 | , 20 | , 22 | , 23 | , 25 | , 27 | , 30 | , 34 | , 38 | 30 |
| II 0 | , 22 | , 25 | , 28 | , 31 | , 33 | , 36 | , 40 | , 45 | , 50 | , 57 | XIV 0 |
| 30 | , 27 | , 31 | , 35 | , 40 | , 43 | , 47 | , 54 | , 60 | , 68 | , 79 | 30 |
| III 0 | —,0032+ | —,0038+ | —,0043+ | —,0049+ | —,0052+ | —,0058+ | —,0068+ | —,0076+ | —,0086+ | —,0101+ | XV 0 |
| 30 | , 36 | , 43 | , 50 | , 57 | , 61 | , 68 | , 081 | , 091 | , 104 | , 121 | 30 |
| IV 0 | , 39 | , 48 | , 56 | , 64 | , 70 | , 79 | , 093 | , 106 | , 121 | , 140 | XVI 0 |
| 30 | , 41 | , 52 | , 61 | , 70 | , 77 | , 88 | , 103 | , 119 | , 134 | , 156 | 30 |
| V 0 | , 43 | , 55 | , 65 | , 75 | , 82 | , 93 | , 111 | , 130 | , 146 | , 170 | XVII 0 |
| 30 | , 44 | , 56 | , 67 | , 77 | , 85 | , 97 | , 116 | , 135 | , 152 | , 180 | 30 |
| VI 0 | —,0045+ | —,0057+ | —,0068+ | —,0078+ | —,0086+ | —,0098+ | —,0117+ | —,0136+ | —,0155+ | —,0183+ | XVIII 0 |
| 30 | , 44 | , 56 | , 67 | , 77 | , 85 | , 97 | , 116 | , 135 | , 152 | , 180 | 30 |
| VII 0 | , 43 | , 55 | , 65 | , 75 | , 82 | , 93 | , 111 | , 130 | , 146 | , 170 | XIX 0 |
| 30 | , 41 | , 52 | , 61 | , 70 | , 77 | , 88 | , 103 | , 119 | , 134 | , 156 | 30 |
| VIII 0 | , 39 | , 48 | , 56 | , 64 | , 70 | , 79- | , 093 | , 106 | , 121 | , 140 | XX 0 |
| 30 | , 36 | , 43 | , 50 | , 57 | , 61 | , 68 | , 081 | , 091 | , 104 | , 121 | 30 |
| IX 0 | —,0032+ | —,0038+ | —,0043+ | —,0049+ | —,0052+ | —,0058+ | —,0068+ | —,0076+ | —,0086+ | —,0101+ | XXI 0 |
| 30 | , 27 | , 32 | , 35 | , 40 | , 43 | , 47 | , 54 | , 60 | , 68 | ,079 | 30 |
| X 0 | , 22 | , 25 | , 28 | , 31 | , 33 | , 36 | , 40 | , 45 | , 50 | ,057 | XXII 0 |
| 30 | , 17 | , 19 | , 20 | , 22 | , 23 | , 25 | , 27 | , 30 | , 34 | ,038 | 30 |
| XI 0 | , 11 | , 12 | , 13 | , 14 | , 14 | , 15 | , 16 | , 17 | , 19 | ,021 | XXIII 0 |
| 30 | , 06 | , 06 | , 06 | , 07 | , 06 | , 07 | , 07 | , 08 | , 08 | ,009 | 30 |

# PROPER MOTION OF THE FIXED STARS.

In Vol. III. is given the Mean of the Proper Motions of all the Stars in the Catalogue, (3005 in number) both in Right Ascension and Declination: and from what there appeared to be—a tendency to exhibit a *general proper motion in the whole system of Stars,* or more simply, *a movement of the Solar System in space,* I have been induced to follow up the enquiry with the 2066 Stars which occur in the present volume, and have in a similar manner brought about 2600 Stars from the Catalogue of Volume II., to bear upon the same subject: how far these have succeeded in establishing this point will appear presently;—in the mean time, it may be proper to remark, that in an investigation of this nature, we may imagine that every star is affected with *true** Proper Motion, more or less: some Proper Motions from their magnitude, are at once recognized, whilst others from their minuteness, are lost sight of in the errors incident to observations:—we may expect however among the latter class, that—occurring indifferently + or — as the larger proper motions do,—the mean among a great many Stars would approximate to zero, and thereby leave disengaged any *apparent* Proper motion which might exist; accordingly in the table which now follows, I have given the mean of all the Proper Motions in Right Ascension for each hour of A. R., omitting only those alluded to in the column "P. M. Stars;"—those Stars in fact whose proper motion exceeds all possible limits of error of observation; thus;—the largest error of A. R. found in the Madras Results was in the case of 169 Ceti, which differed 0,52s. in 1835, from the place determined in 1832: should the whole of this amount in the way of error, apply to one of the determinations; and should an error to the same amount but contrary direction occur in Piazzi's Catalogue, it would give rise to an error $\pm, \frac{52}{t} + , \frac{52}{t}$ in the observed P. M. ($t$ being the date of the Catalogue since 1800); in addition to this, we must take account of the fact, that the Equinoctial Point assumed by Piazzi in the construction of his Catalogue, was the same as that employed by Dr. Maskelyne; whereas we have employed a zero point 0,20s, behind this; hence the Comparison of our Catalogue with Piazzi's, ought to exhibit a P. M. in Right Ascension to the amount $\frac{+, 20s}{t}$; combining this with the above, we may safely assume,—that in either Catalogue—any value found in the Column "P. M. in A. R," which exceeds the limits $\frac{+ 1,24s}{t}$ and $\frac{- 0,84s}{t}$, is more or less the effect of Proper Motion, notwithstanding the errors of observation: thus we have

* By the term *true*" Proper Motion is meant an actual movement of the Star in space with reference to any point we may consider fixed; whereas *apparent* Proper Motion is such as would result from a movement of the Solar System.

*A TABLE of the Proper Motions of the fixed Stars in A. R.*

| Vol. II. for 1832 (2881 Stars.) | | | | Vol. III. for 1835 (3003 Stars.) | | | Vol. IV. for 1836 (2066 Stars.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| A. R. | P. M. Stars. | No. and sum of + & — P. M. | Mean $\frac{-,20}{t}$ (—,0063) | P. M. Stars. | No. and sum of + & — P. M. | Mean $\frac{-,20}{t}$ (—,0057) | P. M. Stars. | No. and sum of + & — P. M. | Mean $\frac{-,20}{t}$ (—,0056) | General Mean P. M. |
| H. M. | | s. | s. | | s. | s. | | s. | s. | s. |
| O | 7 | 90= +1,152<br>7= — ,041 | +,0051 | 7 | 60= +0,912<br>11= —0,077 | +,0061 | 1 | 114= +1,358<br>8= —0,026 | +,0053 | +,0054 |
| I | 4 | 87= +1,085<br>12= — ,077 | +,0039 | 8 | 87= +1,081<br>15= —0,109 | +,0038 | 3 | 63= +0,897<br>3= —0,025 | +,0076 | +,0047 |
| II | 6 | 91= +1,269<br>9= — ,049 | +,0058 | 7 | 61= +0,661<br>37= —0,318 | —,0022 | 1 | 51= +0,178<br>5= —0,032 | +,0059 | +,0027 |
| III | 2 | 93= +1,154<br>10= — ,065 | +,0043 | 4 | 69= +0,701<br>28= —0,177 | —,0003 | 0 | 45= +0,579<br>8= —0,048 | +,0044 | +,0025 |
| IV | 6 | 126= +1,608<br>7= — ,037 | +,0055 | 5 | 95= +0,928<br>26= —0,175 | +,0005 | 3 | 44= +0,682<br>12= —0,091 | +,0050 | +,0036 |
| V | 5 | 127= +1,313<br>12= — ,082 | +,0025 | 2 | 116= +1,009<br>28= —0,201 | —,0002 | 2 | 63= +0,745<br>7= —0,045 | +,0044 | +,0017 |
| VI | 3 | 104= +0,979<br>8= — ,039 | +,0021 | 9 | 122= +1,185<br>32= —0,240 | —,0004 | 3 | 56= +0,784<br>6= —0,027 | +,0066 | +,0019 |
| VII | 2 | 90= +0,761<br>12= — ,065 | +,0005 | 7 | 123= +1,154<br>23= —0,166 | +,0011 | 3 | 54= +0,663<br>8= —0,086 | +,0037 | +,0015 |
| VIII | 2 | 77= +0,748<br>16= — ,104 | +,0017 | 3 | 79= +0,918<br>31= —0,280 | +,0001 | 2 | 57= +0,695<br>6= — ,042 | +,0048 | +,0019 |
| IX | 4 | 83= +0,677<br>10= — ,072 | +,0013 | 6 | 73= +0,709<br>30= —0,189 | —,0007 | 1 | 54= +0,651<br>9= —0,051 | +,0041 | +,0012 |
| X | 1 | 74= +0,811<br>15= — ,107 | +,0016 | 7 | 84= +0,907<br>29= —0,276 | —,0001 | 2 | 36= +0,557<br>4= —0,922 | +,0067 | +,0016 |
| XI | 3 | 66= +0,674<br>8= — ,089 | +,0016 | 7 | 97= +1,128<br>41= —0,348 | ,0000 | 1 | 42= +0,531<br>6= —0,021 | +,0050 | +,0019 |
| XII | 4 | 72= + ,620<br>14= — ,108 | —,0003 | 9 | 115= +1,233<br>19= —0,198 | +,0023 | 1 | 45= +0,635<br>5= —0,030 | +,0063 | +,0023 |
| XIII | 6 | 67= + ,532<br>21= — ,183 | —,0023 | 2 | 105= +1,086<br>32= —0,244 | +,0004 | 6 | 68= +0,730<br>7= —0,080 | +,0033 | +,0003 |
| XIV | 2 | 69= + ,653<br>18= — ,124 | —,0002 | 4 | 98= +0,969<br>33= —0,195 | +,0002 | 2 | 47= +0,470<br>6= —0,032 | +,0028 | +,0006 |
| XV | 3 | 80= + ,747<br>9= — ,043 | +,0016 | 4 | 82= +0,846<br>18= —0,146 | +,0013 | 1 | 52= +0,520<br>5= —0,062 | +,0024 | +,0016 |
| XVI | 4 | 72= + ,609<br>16= — ,109 | —,0006 | 0 | 85= +0,721<br>48= —0,358 | —,0030 | 0 | 55= +0,549<br>8= —0,039 | +,0025 | —,0010 |
| XVII | 4 | 84= +0,772<br>17= —0,069 | +,0007 | 3 | 82= +0,754<br>39= —0,280 | —,0018 | 2 | 104= +1,272<br>13= —0,093 | +,0044 | +,0010 |
| XVIII | 4 | 92= +0,883<br>12= —0,057 | +,0017 | 5 | 81= +0,718<br>22= —0,185 | —,0005 | 4 | 82= +0,926<br>12= —0,091 | +,0033 | +,0015 |
| XIX | 6 | 114= +1,192<br>12= — ,062 | +,0027 | 4 | 97= +1,005<br>24= —0,186 | +,0011 | 1 | 142= +1,654<br>16= —0,109 | +,0042 | +,0028 |
| XX | 7 | 100= +1,134<br>17= — ,104 | +,0025 | 10 | 97= +1,150<br>16= —0,117 | +,0034 | 4 | 193= +2,292<br>18= —0,122 | +,0047 | +,0038 |
| XXI | 3 | 98= +1,205<br>13= — ,057 | +,0041 | 5 | 96= +1,227<br>12= —0,104 | +,0047 | 22 | 144= +1,873<br>19= —0,117 | +,0052 | +,0048 |
| XXII | 4 | 104= +1,274<br>10= — ,039 | +,0045 | 13 | 89= +1,047<br>11= —0,049 | +,0041 | 4 | 72= +0,910<br>6= —0,025 | +,0057 | +,0047 |
| XXIII | 2 | 97= +1,162<br>8= — ,039 | +,0044 | 9 | 94= +1,259<br>13= —0,101 | +,0051 | 4 | 57= +0,799<br>7= —0,029 | +,0064 | +,0053 |

On inspecting the several columns in the above table, we perceive (as indeed might have been expected), that the errors incident to observation, combined with the chance excess of + or — *true* Proper Motion—exert a very powerful sway over our results; examining the column "*Mean*," there is however a determination to *plus maximum* in the neighbourhood of O hours, which is certainly not the effect of chance:—on referring to the formulæ for the Precession in Right Ascension ($c$).

$$c = + 46{,}021 + 20{,}043 \; sin.\; \alpha \; tan.\; \delta$$

it is at once evident, that although a slight modification of the assumed General Precession of the Equinoxes, may be necessary; still, the cause of variation throughout this column remains unexplained: with regard to the effect of error in the Precession upon this table; it is necessary to know approximately, the situation of the stars observed: on referring to the Catalogues, it will be found that they are pretty evenly distributed, and that about one half of the whole number in each hour, is situated within $\pm$ 20° of Declination; thus,

| | | | |
|---|---|---|---|
| if between | — 45° and — 40° | of Declination there are | 26 Stars |
| then | — 40 — — 30 | | 42 |
| | — 30 — — 20 | | 31 |
| | — 20 — — 10 | | 40 |
| | — 10 — 0 | | 72 |
| | — 0 — + 10 | | 100 |
| | + 10 — + 20 | | 100 |
| | + 20 — + 30 | | 88 |
| | + 30 — + 40 | | 47 |
| | + 40 — + 50 | | 55 |
| | + 50 — + 60 | | 42 |
| | + 60 — + 70 | | 36 |
| | + 70 — + 80 | | 20 |
| | + 80 — + 90 | | 4 |
| | | | 703 |

If we now compute for each hour of A. R.—the change of annual precession due to each of these 703 Stars from a change of 1″ in the value of the General Precession in Longitude—and then take the means,—they will exhibit to a sufficient degree of accuracy, the *nature* of the corrections which apply to the column "Proper Motion in A. R." in case the Precession has been wrongly assumed; thus

*Error of the Column "Mean P. M. in A. R." corresponding to an error of 1" in the General Precession in Longitude.*

| RIGHT ASCENSION. | | *error in time.* |
|---|---|---|
| *h.* | *m.* | *s.* |
| O | 30 | = ,063 |
| I | 30 | = ,065 |
| II | 30 | = ,068 |
| III | 30 | = ,070 |
| IV | 30 | = ,071 |
| V | 30 | = ,072 |
| VI | 30 | = ,072 |
| VII | 30 | = ,071 |
| VIII | 30 | = ,070 |
| IX | 30 | = ,068 |
| X | 30 | = ,065 |
| XI | 30 | = ,063 |
| XII | 30 | = ,060 |
| XIII | 30 | = ,058 |
| XIV | 30 | = ,055 |
| XV | 30 | = ,053 |
| XVI | 30 | = ,052 |
| XVII | 30 | = ,051 |
| XVIII | 30 | = ,051 |
| XIX | 30 | = ,052 |
| XX | 30 | = ,053 |
| XXI | 30 | = ,055 |
| XXII | 30 | = ,058 |
| XXIII | 30 | = ,060 |

Since then the disposition of the above numbers is not such as to explain the various values found in the column "Proper Motion in A. R.;" we will now consider what effect a motion of the Solar System in space would have upon the question: in the first place we notice with regard to its general effect—that there would be two opposite neutral points, situated in the axis of motion, and that at right angles to this—there would be a plane of maximum motion:—with regard to its effect upon our results for the A. R.—it is necessary to consider again the position of the Stars constituting the results: on consulting the table at page CXVII, it appears that the whole of the Stars may roughly be supposed—to be congregated about a circle of 15° of North Declination, or surrounding the pole at a distance of 75° from it: with this view of the subject, we perceive that our results should exhibit two zero points, and one of +, and another of —, maximum; and moreover, that the mean of the 24 results

should = 0; on taking the mean however, it comes out + *s*,0025: exhibiting with reference to the above table,—*that the General Precession in Longitude should be increased* 0″,0416;* If we now apply to our results the corrections due to this, and convert them into space, we have as follows—

*Observed General Proper Motion of the Fixed Stars in A. R.*

| A. R. | | P. M. Space | | P. M. in arc of a great circle. |
|---|---|---|---|---|
| *h.* | *m.* | ″ | | ″ |
| O | 30 | + ,0420 | *or* | + ,0368 |
| I | 30 | + ,0315 | | + ,0266 |
| II | 30 | — ,0015 | | — ,0000 |
| III | 30 | — ,0060 | | — ,0026 |
| IV | 30 | + ,0090 | | + ,0101 |
| V | 30 | — ,0195 | | — ,0139 |
| VI | 30 | — ,0165 | | — ,0114 |
| VII | 30 | — ,0225 | | — ,0173 |
| VIII | 39 | — ,0135 | | — ,0101 |
| IX | 30 | — ,0240 | | — ,0190 |
| X | 30 | — ,0165 | | — ,0127 |
| XI | 30 | — ,0105 | | — ,0076 |
| XII | 30 | — ,0030 | | — ,0024 |
| XIII | 30 | — ,0315 | | — ,0254 |
| XIV | 30 | — ,0255 | | — ,0203 |
| XV | 30 | — ,0090 | | — ,0077 |
| XVI | 30 | — ,0495 | | — ,0393 |
| XVII | 30 | — ,0165 | | — ,0140 |
| XVIII | 30 | — ,0090 | | — ,0076 |
| XIX | 30 | + .0090 | | + ,0089 |
| XX | 30 | + ,0240 | | + ,0203 |
| XXI | 30 | + ,0345 | | + ,0444 |
| XXII | 30 | + ,0345 | | + ,0304 |
| XXIII | 30 | + ,0420 | | + ,0368 |

The reduction into *arc*, has been effected with reference to the table at page CXVII on the supposition that the Declination of each group of Stars is constant, or the P. M. in *arc* = P. M. in space $\times \left(\frac{26.\cos 42^{0}\,30' + 42.\cos. 35^{0} + 31.\cos. + \&c.}{703}\right)$

We will now leave the above table for the present, and proceed to take notice of the Annual Proper Motion in Declination. Taking the Means in each hour of A. R. we obtain as follows.

* Agreeable to the formulæ employed in deducing these three catalogues;—the Precession in A. R. for 1830 = 46″,0206 + 20,0426 *sin. a tan. δ*, whereas it would appear from this result, that the proper formulæ is = 46″,0587 + 20,0577 *sin. a tan. δ*

*A TABLE of the observed Proper Motion of the Fixed Stars in Declination.*

| Vol. II. for 1832;—2881 Stars. | | | | Vol. III. for 1834;—3003 Stars. | | | Vol. IV. for 1836;—2066 Stars. | | |
|---|---|---|---|---|---|---|---|---|---|
| A. R. | P. M. Stars. | No. and sum of + & — P. M. | Mean. | P. M. Stars. | No. and sum of + & — P. M. | Mean. | P. M. Stars. | No. and sum of + & — P. M. | Mean. |
| H. M. | | " | " | | " | " | | " | " |
| 0 | 6 | 32= + 2,10<br>67= — 6,30 | — ,0424 | 5 | 29= + 0,99<br>43= — 3,73 | — ,0381 | 1 | 43= + 2,03<br>80= — 6,19 | — ,0338 |
| I | 7 | 41= + 2,11<br>52= — 5,41 | — ,0355 | 2 | 48= + 2,28<br>60= — 5,37 | — ,0286 | 2 | 30= + 1,69<br>38= — 2,96 | — ,0187 |
| II | 9 | 20= + 0,95<br>74= — 7,42 | — ,0688 | 7 | 37= + 2,51<br>61= — 5,97 | — ,0353 | 2 | 29= + 1,76<br>30= — 2,64 | — ,0149 |
| III | 3 | 27= + 1,47<br>72= — 6,39 | — ,0497 | 7 | 41= + 1,90<br>62= — 5.03 | — ,0304 | 3 | 20= + 1,19<br>30= — 2,55 | — ,0272 |
| IV | 9 | 32= + 1.76<br>97= —10,23 | — ,0657 | 5 | 51= + 3,19<br>70= — 6,36 | — ,0262 | 2 | 28= + 1.70<br>27= — 2,18 | — ,0087 |
| V | 9 | 38= + 1,95<br>88= — 9,04 | — ,0563 | 3 | 53= + 3,96<br>74= — 6,99 | — ,0239 | 4 | 38= + 1,96<br>30= — 2,00 | — ,0007 |
| VI | 8 | 29= + 2,37<br>76= — 6,14 | — ,0359 | 10 | 72= + 4,56<br>79= — 7,61 | — ,0202 | 1 | 28= + 2,31<br>38= — 3,22 | — ,0138 |
| VII | 2 | 32= + 2,25<br>69= — 6,41 | — ,0412 | 5 | 59= + 2,96<br>89= — 7,49 | — ,0306 | 1 | 29= + 2,08<br>33= — 3,25 | — ,0189 |
| VIII | 3 | 22= + 1,31<br>67= — 5,86 | — ,0511 | 2 | 30= + 1,70<br>76= — 6,31 | — ,0435 | 2 | 25= + 1,12<br>40= — 2,97 | — ,0284 |
| IX | 6 | 16= + 1,32<br>58= — 5,29 | — ,0536 | 3 | 31= + 1,36<br>75= — 5,55 | — ,0395 | 1 | 23= + 1,18<br>37= — 2,20 | — ,0170 |
| X | 5 | 20= + 1,13<br>62= — 6,60 | — ,0667 | 2 | 39= + 1,55<br>79= — 8,19 | — ,0563 | 2 | 11= + 0,65<br>28= — 2,40 | — ,0449 |
| XI | 5 | 23= + 0,74<br>55= — 5,25 | — ,0568 | 6 | 28= + 1,45<br>92= — 8,64 | — ,0599 | 1 | 6— + 0,31<br>36= — 3,76 | — ,0821 |
| XII | 5 | 22= + 0,96<br>60= — 5,59 | — ,0565 | 3 | 51= + 3,47<br>87= — 8,14 | — ,0338 | 2 | 10= + 0,39<br>40= — 4,46 | — ,0814 |
| XIII | 7 | 18= + 0,95<br>68= — 6,81 | — ,0681 | 2 | 46= + 2,57<br>90= — 7,45 | — ,0359 | 6 | 24= + 1,31<br>52= — 4,27 | — ,0389 |
| XIV | 13 | 21= + 1,48<br>57= — 5,96 | — ,0574 | 5 | 41= + 1,91<br>90= — 8,13 | — ,0475 | 2 | 10= + 0,42<br>43= — 3,82 | — ,0642 |
| XV | 18 | 23= + 1,28<br>70= — 6,48 | — ,0559 | 3 | 31= + 2,36<br>72= — 6,27 | — ,0380 | 1 | 16= + 0,47<br>41= — 4,12 | — ,0640 |
| XVI | 9 | 24= + 1,81<br>73= — 8,07 | — ,0645 | 6 | 38= + 1,94<br>95= —10,41 | — ,0637 | 1 | 18= + 0,84<br>44= — 3,61 | — ,0446 |
| XVII | 15 | 21= + 1,32<br>60= — 4,84 | — ,0435 | 10 | 32= + 1,25<br>76= — 8,27 | — ,0650 | 6 | 27= + 0,92<br>90= — 8,13 | — ,0616 |
| XVIII | 19 | 22= + 1,30<br>64= — 6,40 | — ,0593 | 4 | 31= + 1,73<br>76= — 8,42 | — ,0625 | 1 | 15= + 0,86<br>80= — 7,61 | — ,0710 |
| XIX | 19 | 29= + 1,30<br>82= — 7,88 | — ,0593 | 4 | 33= + 1,90<br>80= — 8,20 | — ,0558 | 8 | 32= + 1,28<br>119= —11,28 | — ,0662 |
| XX | 6 | 40= + 2,55<br>78= — 8,86 | — ,0535 | 5 | 43= + 3,03<br>85= — 9,12 | — ,0476 | 4 | 52= + 2,85<br>158= —14,87 | — ,0572 |
| XXI | 12 | 26= + 1,73<br>75= — 7,65 | — .0586 | 2 | 33= + 1,50<br>78= — 7,76 | — ,0564 | 3 | 53= + 2,76<br>130= —11,97 | — ,0503 |
| XXII | 9 | 27= + 1,65<br>84= — 8,36 | — ,0605 | 4 | 45= + 2,43<br>67= — 5,85 | — ,0354 | 4 | 29= + 1,50<br>51= — 4,21 | — ,0339 |
| XXIII | 9 | 27= + 1,77<br>72= — 6,26 | —, 0454 | 3 | 43= + 2,59<br>70= — 5,58 | — ,0265 | 4 | 24= + 1,41<br>40= — 3,64 | — ,0348 |

Here we find all the results affected with the sign *minus*, which leads us to enquire what circumstances may affect the Palermo or Madras Observations to account for such a disposition;—in the first place, the Latitudes $l$, $l'$ of Palermo or Madras, may be wrong; and in the next place the error of the tables of refraction will enter; added to which any error in the General Precession in Longitude, will effect each result by a quantity $x.\ cos.$ A. R.; or each of the above results may possibly be erroneous to the amount $\frac{d\,l + d\,l' + d\,r + d\,r'}{t}$ $+ x.\ cos.$ A. R.; which put $= S + x\ cos.$ A. R.

With regard to the first of these terms, it will be observed—that its effect is constant throughout, for each catalogue; but would be larger upon that for 1832 than that for 1835 or 1836—in proportion to the value of $t$ (the date since 1800); whereas the term depending upon the A. R., (which is common to each catalogue), being variable throughout the column, to the same extent +, as it is—, will be lost sight of on taking the mean of the 24 hours; thus—taking the mean for the 24 hours of the three catalogues we get

$$\text{General Annual P. M. in Declination.} = -\,''{,}0544 + \frac{S}{32{,}5}$$
$$= -\,''{,}0417 + \frac{S}{35}$$
$$= -\,''{,}0406 + \frac{S}{37}$$
$$\therefore S = +\,3''{,}61$$

With regard to the value of $d\,l'$, we have no evidence to shew the extent of accuracy obtained, we only could have expected and wished, that the results of so great and good a catalogue as Piazzi's had in this respect been free from any serious error: the value $d\,l'$ has already been found at page 73 to be—1″; which is probably within a tenth or two of a second of the truth; to form an estimate of the value $d\,r$; it may be safely assumed, that the *uncertainty* of refraction, for altitudes above 10°—varies as the amount of refraction itself, or nearly as the tangent of the zenith distance of the Star: if then with reference to the table at page cxvii, we compute the value

$$\frac{26\ tan.\ 41^{\circ}\ 30' + 42\ tan.\ 35^{\circ} + 31\ tan.\ 25^{\circ} + \&c.}{703}$$

we find, that the uncertainty of refraction for the Palermo observations is such as would apply to a Star situated 43°,15 from the zenith; at which place, half a second is certainly the extreme limit of error, or $d\,r = \pm\,''{,}5$: with regard to the Madras results, the case is much more favorable, for the Stars are so evenly disposed on either side of the zenith, that it matters not what table of

refractions had been employed; hence $d\,r = 0$ and we have found altogether

$$S = 3'',61 = d\,l - 1'',0 \pm 0'',5 \pm 0 \quad \therefore\ d\,l \text{ is between } 4'',1 \text{ and } 5'',1$$

or it would appear that the Latitude of Palermo is above 4″ less than that assigned to it by Piazzi.

A variation of above 4″ however, and that built only upon very slender grounds,—cannot for the present be admitted; we will therefore substract the mean result of each catalogue from its several constituents' values, and then combine the results according to their weight; when, putting $s$, for the true correction which remains to be applied to these to render them just; and $x$ for any error which may result from a wrong assumption of the General Precession, we obtain as follows—

| A. R. | | General P. M. in Declination. | Cord. General P. M. in Declination. |
|---|---|---|---|
| *h.* | *m.* | No. 1. | No. 2. |
| O | 30 | $s$ + ,0078 + ,991 $x$ | $s$ — ,0071 |
| I | 30 | + ,0172 + ,923 | + ,0038 |
| II | 30 | + ,0032 + ,793 | — ,0083 |
| III | 30 | + ,0099 + ,608 | + ,0009 |
| IV | 30 | + ,0072 + ,382 | + ,0015 |
| V | 30 | + ,0146 + ,130 | + ,0127 |
| VI | 30 | + ,0216 — ,130 | + ,0235 |
| VII | 30 | + ,0139 — ,382 | + ,0196 |
| VIII | 30 | + ,0037 — ,608 | + ,0127 |
| IX | 30 | + ,0073 — ,793 | + ,0188 |
| X | 30 | — ,0121 — ,923 | + ,0013 |
| XI | 30 | — ,0171 — ,991 | — ,0023 |
| XII | 30 | — ,0037 — ,991 | + ,0111 |
| XIII | 30 | — ,0009 — ,923 | + ,0126 |
| XIV | 30 | — ,0111 — ,793 | + ,0004 |
| XV | 30 | — ,0043 — ,608 | + ,0047 |
| XVI | 30 | — ,0142 — ,382 | — ,0085 |
| XVII | 30 | — ,0134 — ,130 | — ,0115 |
| XVIII | 30 | — ,0190 + ,130 | — ,0211 |
| XIX | 30 | — ,0160 + ,382 | — ,0217 |
| XX | 30 | — ,0090 + 608 | — ,0180 |
| XXI | 30 | — ,0094 + ,793 | — ,0209 |
| XXII | 30 | + ,0019 + ,923 | — ,0115 |
| XXIII | 30 | + ,0108 + ,991 | — ,0041 |

In which $s$,—if the above error of 4″ in the Palermo Latitude be admitted, = + ,″0595.

Examining column No. 1, we find a pretty regular determination to + and —, which cannot possibly arise from accident—we notice, that any small correction for error of Precession, such as found at page cxix,—since it interferes in no respect with the *general tendency* of the numbers, it may be applied or not, at pleasure; to be consistent however, it will be proper to apply the

correction due to an alteration of ,"041 in the General Precession as found at page cxix; viz, thus ",0150 cos. A. R.: thus *No.* 2. If we now divide the line A, B, Fig. 1 into 24 equal parts, to represent hours of A. R., and, making use of any convenient scale—set off opposite to 0*h*. 30*m*. 1*h*. 30*m*. &c. the perpendiculars *a* 1, *a* 2, &c. corresponding to the values given in the table at page cxix, and perform the same for the above table; we get two series of lines 1, 2, 3, and 1, 2, 3, exhibiting in the first instance, the observed annual Proper Motion in A. R., of Stars supposed to be situated at 0*h*. 30*m*. 1*h*. 30*m*. &c. of Right Ascension, and at a distance of 75° from the North Pole; and in the second case, exhibiting the *nature* of the annual P. M. of the same Stars in declination, but not its *extent*. If we now with freedom draw a curve line through each of these serieses of points, conforming as nearly with them as is consistent with the character of a curve; we shall by measuring the ordinates, obtain corrected values of the Proper Motion, thus

*Corrected Proper Motion.*

| | | in A. R. in arc | in Declination. |
|---|---|---|---|
| *h.* | *m.* | " | " |
| O | 30 | + ,0312 | *s* — ,0100 |
| I | 30 | + ,0250 | — ,0070 |
| II | 30 | + ,0180 | — ,0020 |
| III | 30 | + ,0135 | + ,0040 |
| IV | 30 | + ,0060 | + ,0100 |
| V | 30 | — ,0035 | + ,0145 |
| VI | 30 | — ,0110 | + ,0180 |
| VII | 30 | — ,0160 | + ,0190 |
| VIII | 30 | — ,0175 | + ,0180 |
| IX | 30 | — ,0190 | + ,0170 |
| X | 30 | — ,0200 | + ,0145 |
| XI | 30 | — ,0210 | + ,0115 |
| XII | 30 | — ,0210 | + ,0080 |
| XIII | 30 | — ,0200 | + ,0040 |
| XIV | 30 | — ,0190 | — ,0015 |
| XV | 30 | — ,0180 | — ,0065 |
| XVI | 30 | — ,0158 | — ,0110 |
| XVII | 30 | — ,0115 | — ,0145 |
| XVIII | 30 | — ,0045 | — ,0175 |
| XIX | 30 | + ,0067 | — ,0195 |
| XX | 30 | + ,0163 | — ,0195 |
| XXI | 30 | + ,0240 | — ,0175 |
| XXII | 30 | + 0 300 | — ,0160 |
| XXIII | 30 | + ,0320 | — ,0140 |

These numbers it will readily be admitted, have been arrived at in a legitimate way, and they are to all intents and purposes Proper Motions: since then it will not for a moment be contended that they represent "true" or actual Proper Motions of the Stars themselves, we will see how far the supposition of a motion of the Solar System in space will account for the several values;

for this purpose, on the centre P (fig. 3) with the chord of 75° describe a circle, which divide into 24 equal parts, corresponding to the several points at which we have determined the Proper Motions: with reference to the P. M. in A. R. we find, that it arrives at O at about V and XIX hours; whereas to represent the effect of motion of the Solar System these points should be separated by 12 hours: let us then assume VI and XVIII to represent the zero points in A. R., and draw the line VI—XVIII: if we assume the point to which the motion of the Solar System is directed, to be situated any where in the direction P. XVIII, it will at once represent the nature of the above table for the A. R.: for the effect of advancing to any point N, being to increase the arc N S. to N S′ (in which S. S.′ = M. *sin.* N S.) its effect at any point between 18*h*. and 6*h*, is to increase the Right Ascension, whereas at the corresponding points between 6*h*. and 18*h*. it causes a diminution to the like amount: examining these results, it appears on trial that no single value for M, will satisfy both of these tables; if we allow that Piazzi's Latitude has been correctly observed (and since writing the above, I find in the Nautical Almanac, from late observations an exact confirmation of the value assigned by Piazzi); then, the distance of the point N from P, comes out between 23° and 24°, a point which is sufficiently enough distinguished, as being the *Pole of the Ecliptic*: with regard to the Declination Proper Motions,—the very improbable result arrived at, at page cxxi from the mean of the whole 24 hours, teaches us—that little dependance can be placed upon individual results; and on examining different tables of Refraction, it will be found, that the various corrections for temperature, which are given in one or other of these, offers a sufficient explanation for the want of agreement of the P. M. from the Declination observations with that found from the Right Ascensions. Since writing the above, on consulting the three several results of the table at page cxvi—instead of the *mean* which has hitherto been employed—I find that the determination to + and — maximum is much more strongly marked in the first catalogue than it is in the second; and that the second is more strongly marked than the third:—Now this result is precisely the one which should obtain from a motion of the Solar System in space; for, on consulting the first catalogue (Vol. II.) it will be found to contain several stars of the first and second magnitudes, and a great many of the third and fourth &c. or it may be assumed, that—

For the Catalogue in Vol. II. the average mag. = 5,4
——— ———III. ——— ——— = 6,4
——— ———IV. ——— ——— = 7,8

Although in individual instances—the degree of brightness exhibited by the fixed stars cannot be assumed as a measure of their relative distances; still in large catalogues such as the above, it is natural to suppose that—taken *en masse*, those are nearest to us which are the brightest; hence the stars in Vol. II. from being brighter—nearer to us—should render a movement of the Solar System in space more apparent than those given in Vol. III or IV: with this view of the subject, the anomalies met with at pages cxxi and cxxii, (where the P. M. in Declination from the three catalogues gave S = 3″,61 and Piazzi's Latitude above 4″ in error) are fully explained and accounted for: and for the present it may be assumed—*that the Solar System is in motion in space, and that its motion is directed towards the North Pole of the Ecliptic;* and, exhibiting in the fixed Stars with reference to their *average distance* (if such an expression can be tolerated),—an annual change of place in Latitude, to the amount + ″,059 *cos. Lat. of the Star.*

## SUPPLIMENTARY OBSERVATIONS AND MEMORANDA.

In the ordinary course of Observing and computing, it often happened—that an appearance different from ordinary, an error, an omission, or a discordance of some kind or other—has offered, which it was desireable should be placed on record, or, that the matter if doubtful, should on a subsequent occasion be re-examined &c.—in either of these cases the observing or computing books not offering sufficient accomodation for remarks, and in some cases being in-appropriate,—I have been in the habit of entering into a memorandum book, these circumstances &c. as they have occurred, and in the course of printing, when opportunity has offered—I have availed myself of its contents;—several of these memoranda which still remain, are for my own private, information and guidance, whilst others again—appear to belong to this work: such as they are, I have thought it best to give them here in the rough manner and order in which they have been made, thus—

## MEMORANDA &c.

I. Re-examined the N. P. D. of 40 *Lyncis r* which exhibits a strange disagreement when compared with the Greenwich place—thus

| | | | Reduced to Jan. 1, 1835. | | |
|---|---|---|---|---|---|
| | | | ° | ′ | ″ |
| Greenwich place from observations in | | 1825 | 54 | 54 | 52,76 |
| Madras | —— | 1831 | | | 58,20 |
| —— | —— | 1832 | | | 57,45 |
| —— | —— | 1833 | | | 57,38 |
| —— | Jan. | 1835 | | | |

| | | | ° | ′ | ″ | | |
|---|---|---|---|---|---|---|---|
| 1836 | March | 26 | 54 | 55 | 12,01 | | |
| | April | 13 | | | 10,61 | 1836 | 56,25 |
| | —— | 16 | | | 10,59 | | |
| 1837 | Feb. | 4 | | | 11,92 | | |
| | | 18 | | | 12,08 | | |
| | March | 6 | | | 11,73 | | |
| | | 7 | | | 12,76 | | |
| | | 18 | | | 12,69 | 1837 | 57,53 |
| | | 19 | | | 12,32 | | |
| | | 20 | | | 12,84 | | |
| | April | 13 | | | 12,47 | | |

II. No. 171 in II hours is preceded by another Star at 16 seconds, whereas Piazzi says at 12 seconds.

III. No. 152 in IV hours :—Piazzi's Declination probably five minutes in error; examine this.

IV. No. 64 in IX hours is not observed :—I looked for it on the 29th and 30th April 1837 (it being very clear), saw No. 65 but 64 had disappeared.

V. No. 15 in XI hours :—It is very extraordinary that Piazzi has not noticed the star following this at 4—5 seconds, and 23″ to the North.

VI. No. 154 in XII hours :—in Piazzi's Catalogue the A. R. is given 187° 36′ 50″,4; instead of 187° 39′ 50″,4 *I imagine.*

VII. No. 39 in XIII hours :—Piazzi's Annual Precession is erroneous, hence the Right Ascension is probably so too.

VIII. No. 25 in XIII hours :—Piazzi gives diff. Declination between this and the accompanying Star = 16″,9
whereas from our obs. 1837 May 23 = 25″,0
—— 24 = 27″,2

IX. No. 12 in XXI hours :—or No. 2511 of R. A. S. C. the Proper Motion is determined by B. F. with P = — 1″,09
—— —— P —— P = — 0″,60
—— —— P —— T = + 0″,09

X. No. 168 in XVIII hours :—On the 25th April 1837, I observed two stars here, 5′ *North* and 0,60*s. following.*

XI. No. 53 in XIX hours :—Piazzi says, "6″,2 temporis alia 8,9 æ magnitud. praecedit, 3′ ad Boream": it now in (1837) differs 7,8 seconds.

XII. No. 106 in XIX hours :—May 3d 1837 I observed two stars here; Piazzi has not noticed this—

XIII. No. 252 in XIX hours :—Two Observations with the Transit give the A. R. 1*m*. or 15′ different from Piazzi ; in the Catalogue I have through inadvertence supposed our results to be erroneous ; but this must be re-examined.

XIV. No. 103 in XX hours :—Piazzi mentions a Star accompanying this, its place now is { A. R. 20*h*. 13*m*. 19,98*s*. / Dec. —6° 11′ 58″,25 } January 1, 1836.

XV. No. 221 in XX hours :—Piazzi says " 8″ temporis 6′ ad austrum alia 8 æ magn. sequitur : I cannot find this Star, but have observed one 20 seconds *preceding* and 6′ to the South—examine this again.

XVI. No. 286 in XX hours :—This Star is not to be found in the place assigned from Piazzi's Catalogue ; the nearest Star is 10—11 minutes of space distant.

XVII. No. 42 in XX hours :—I re-examined the place of this Star on the 14th September in 1837, when the A. R. January 1, 1837 came out 20*h*. 4*m*. 37,94*s*. confirming the large P. M. —,330*s*. found in Vol. III.

## *Errata in the present Volume.*

| | | | | | |
|---|---|---|---|---|---|
| Page 4, line 15, | | for observations | *read* observation | | |
| — 57, — 39, | | — semid. 15′ 52″,62 | *read* 15′ 58″,62 | | |
| In the Catalogue No. 124 | P. M. A. R. | — + ,905 | *read* + ,005 | | |
| 183 | Mag. | — 8 | — 6 | | |
| — | Declin. | — No. obs. 2=32″,36 | *read* 4=20″,92 | | |
| 709 | A. R. | — 10*h*. | — 9*h*. | | |
| 710 | —— | insert 10*h*. | | | |
| 1233 | Log. *d*— | — —5,9780 | — +5,9780 | | |
| 1235 | Log. *d*— | — +4,5105 | — —4,5105 | | |
| Page xciv | | — No. 69—Vol. II. | — No. 69—Vol. III. | | |

## *Additional Errata in* Vol. II.

| | | | | | |
|---|---|---|---|---|---|
| In the Catalogue No. | 21 | N. P. D. | for 46″,27 | *read* 43″,27 | |
| | 109 | —— | — 100° 51′ | — 100° 52′ | |
| | 147 | Ann. Pre. A. R. | — 4,833*s*. | — 3,833*s*. | |
| | 155 | —— | — 1*h*. 17*m*. | — 1*h*. 18*m*. | |
| | 157 | —— | — 1*h*. 18*m*. | — 1*h*. 19*m*. | |
| | 274 | —— | — 2*h*. 2*m*. | — 2*h*. 28*m*. | |
| | 701 | —— | — 5*h*. 34*m*. | — 5*h*. 33*m*. | |
| | 805 | —— | — 45,70*s*. | — —— | it was not obsd. |
| | 989 | N. P. D. | — 66° 55′ | — 66° 53′ | |
| | 1365 | —— | — 102° 17′ | — 102° 16′ | |
| | 1540 | —— | — 90° 27′ | — —— | a wrong star. |
| | 1690 | —— | — 110° 36′ | — 110° 38′ | |
| | 1968 | A. R. | — 54,62*s*. | — 53,62*s*. | |
| | 2051 | —— | — 17*h*. 46*m*. | — 17*h*. 47*m*. | |
| | 2110 | —— | — 18*h*. 12*m*. | — 18*h*. 13*m*. | |
| | 2174 | —— | — 26,32*s*. | — 36,32*s*. | |
| | 2455 | N. P. D. | — 56° 32′ | — 56° 39′ | |
| | 2456 | A. R. | — 52,95*s*. | — 29,19*s*. | |

## *Additional Errata in* Vol. III.

In the Catalogue at pages xx, xxvi, xxxii, xxxiv, xxxviii and xliv, correct the date to 1835.

| | | | | | |
|---|---|---|---|---|---|
| No. 69 | A. R. | for 16,54*s*. | *read* 17,54*s*. | | |
| 98 | —— | — 9,09*s*. | — 11,07*s*. | | |
| 403 | —— | — 4,41*s*. | — 1,10*s*. | | |
| 436 | —— | — 55° 69 | — 56° 55 | | |
| 718 | —— | — 58,87*s*. | — 53,60*s*. | & P. M. = +,009*s*. | |
| 746 | —— | — 44,23*s*. | — 40,75*s*. | & P. M. = ,000*s*. | |
| 827 | —— | — 41,28*s*. | — 41,85*s*. | & P. M. = ,078*s*. | |
| 838 Piaz. | No. | — 329 | — 332 | | |
| *838 | Declin. | — 1=34,85 | — 19″,44 | & correct P. M. = —0″,48 | |
| 841 P. M. | Declin. | — +″,08 | — +0″,37 | | |
| 980 —— | A. R. | — —,108*s*. | — +,001 | | |
| 993 | —— | — 783*s*. | — 8,54*s*. | | |
| 1109 P. M. | —— | — —,057*s*. | — ,000*s*. | | |
| 1162 P. M. | —— | — —,116*s*. | — —,023*s*. | | |
| 1655 | A. R. | — 49,17*s*. | — 49,69*s*. | | |
| 1660 | —— | — 19,09*s*. | — 19,75*s*. | | |
| 2096 Log. | C | for —0,6218 | *read* +0,6218 | | |
| 2193 | Declin. | — 13,15*s*. | — 13,14*s*. | | |
| 2221 | A. R. | — 51,75*s*. | — 52,14*s*. | | |
| 2452 | Declin. | — 14° 30′ | — 16° 30′ | | |
| 2453 | —— | — Cancel the result | | | |
| 2528 P. M. | in A. R. | — —,140 | — —,330 | | |

* This however must be re-examined.

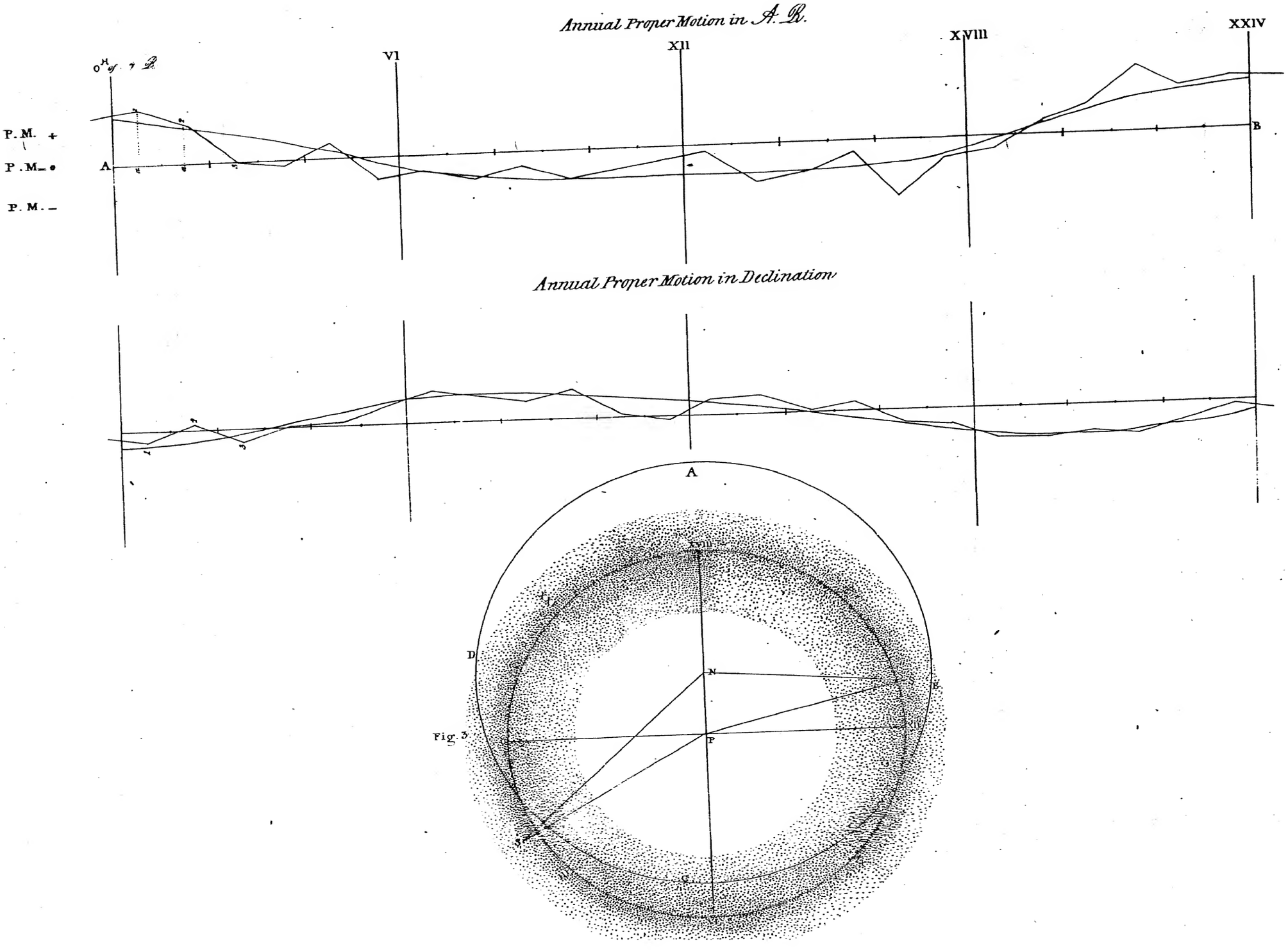
Annual Proper Motion in A. R.
XXIV
XVIII
XII
VI
0H of γ
P. M. +
P. M. •
P. M. –
A
B
Annual Proper Motion in Declination
A
D
N
E
P
S
C

Fig. 3